

BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0359

Permit No. AP4911-1349

**CLASS I AIR QUALITY OPERATING PERMIT
GENERAL REQUIREMENTS**

Issued to: Newmont Nevada Energy Investment, LLC, as Permittee

Section V. Specific Operating Conditions

A. Emission Unit #S2.001 – Pulverized Coal Fired Boiler. UTM: North 4510.669 km, East 539.693 km (Zone 11)

System 01A – Pulverized Coal-Fired Boiler, 200 MW nominal output.

S2.001 Sub-Critical Steam Boiler, Manufacturer TBD, Model # TBD, Serial # TBD, Unit Manufactured TBD. 2,030 million Btu/hr, Maximum Heat Input, Nominal 200 MW Output.

1. NAC 445B.3405

Air Pollution Equipment

- a. Emissions from **S2.001** shall be ducted to the following emissions control system with 100% capture and a maximum volume flow rate of 476,000 dry standard cubic feet per minute (DSCFM):
- (1) Pulse Jet Fabric Filter Dust Collector for the control of particulate matter.
 - (2) Lime Spray Dryer dry scrubbing system for the control of sulfur dioxide, hydrogen fluoride, hydrogen chloride and sulfuric acid mist.
 - (3) Selective Catalyst Reduction (SCR) system, Low NO_x coal burners and **over-fire** air for the control of oxides of nitrogen (NO_x). The SCR shall utilize ammonia injection into the SCR at a volume specified by the manufacturer.
 - (4) Activated Carbon injection system for the control of mercury emissions.

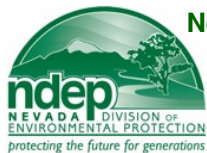
b. **Stack Parameters**

Height: **358** ft
Diameter: 16 ft
Exhaust Temperature: 160 °F
Velocity: 66.0 ft/sec
Volume Flow: 476,000 DSCFM

2. NAC 445B.3405

Emission Limits

- a. On and after the date of startup of **S2.001**, **the Permittee** will not discharge or cause the discharge into the atmosphere from the exhaust stack of **S2.001**, the following pollutants in excess of the following specified limits:
- (1) NAC 445B.305 – The discharge of PM (particulate matter) and PM₁₀ (particulate matter less than 10 microns in diameter), filterable and condensable, to the atmosphere each will not exceed **77.1** pounds per hour.
 - (2) NAC 445B.2203(1)(b) – The discharge of PM₁₀ to the atmosphere will not exceed **0.176** pound per million Btu.
 - (3) SIP 445.731(1)(b) **Federally Enforceable SIP** – The discharge of PM to the atmosphere will not exceed **0.176** pound per million Btu.
 - (4) NAC 445B.305 **BACT Emission Limit** – The discharge of PM and PM₁₀, each, to the atmosphere will not exceed **0.012** pound per million Btu, filterable, based on a 24-hour rolling average period.
 - (5) 40 CFR Part 60.42Da(c) Federally Enforceable New Source Performance Standard Requirement - On and after the date on which the performance test required to be conducted under 40 CFR Part 60.8 is completed, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any affected facility any gases that contain particulate matter in excess of either 6.4 ng/J (0.015 lb/MMBtu) heat input derived from the combustion of solid, liquid, or gaseous fuel or 13 ng/J (0.03 lb/MMBtu) heat input derived from the combustion of solid, liquid, or gaseous fuel and 0.1 percent of the combustion concentration determined according to the procedure in 40 CFR Part 60.48Da(o)(5) (99.9 percent reduction).
 - (6) NAC 445B.22047(3) – The discharge of sulfur to the atmosphere will not exceed **1,218.0** pounds per hour.



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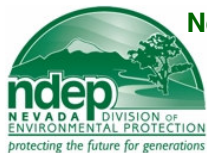
Section V. Specific Operating Conditions (continued)

A. Emission Unit #S2.001 - Pulverized Coal Fired Boiler (continued)

2. NAC 445B.3405

a. Emission Limits (continued)

- (7) Article 8.2.1.2 Federally Enforceable SIP - The discharge of sulfur to the atmosphere will not exceed **1,218.0** pounds per hour.
- (8) NAC 445B.305 BACT Emission Limit – The discharge of SO₂ to the atmosphere will not exceed:
 - (i) While combusting coal with a Sulfur content equal to or greater than 0.45 percent (30-day rolling period), based on daily ASTM sampling:
 - (a) **0.09** pound per million Btu, based on a 24-hour rolling average period.
 - (b) 95% minimum SO₂ removal efficiency will be maintained across the system, based on a 30-day rolling period.
 - (ii) While combusting coal with a Sulfur content less than 0.45 percent (30-day rolling period), based on daily ASTM sampling:
 - (a) 0.065 pound per million Btu, based on a 24-hour rolling average period.
 - (b) 91% minimum SO₂ removal efficiency will be maintained across the system, based on a 30-day rolling period.
- (9) NAC 445B.305 – The discharge of SO₂ to the atmosphere will not exceed **192.9** pounds per hour, based on a 3-hour rolling average period.
- (10) 40 CFR Part 60.43Da(i) Federally Enforceable New Source Performance Standard Requirement - On and after the date on which the performance test required to be conducted under 40 CFR Part 60.8 is completed, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any affected facility any gases that contain sulfur dioxide in excess of either 180 ng/J (1.4 lb/MWh) gross energy output on a 30-day rolling average basis, or 5 percent of the potential combustion concentration (95 percent reduction) on a 30-day rolling average basis.
- (11) NAC 445B.305 BACT Emission Limit – The discharge of NO_x (oxides of nitrogen) to the atmosphere will not exceed **0.067** pound per million Btu, based on a 24-hour rolling period.
- (12) NAC 445B.305 – The discharge of NO_x to the atmosphere will not exceed **595.7** tons per 12-month rolling period.
- (13) 40 CFR Part 60.44Da(e)(1) Federally Enforceable New Source Performance Standard Requirement - On and after the date on which the performance test required to be conducted under 40 CFR Part 60.8 is completed, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any affected facility any gases that contain nitrogen oxides (expressed as NO₂) in excess of 130 ng/J (1.0 lb/MWh) gross energy output on a 30-day rolling average basis.
- (14) NAC 445B.305 BACT Emission Limit – The discharge of CO (carbon monoxide) to the atmosphere will not exceed **0.15** pound per million Btu, based on a 24-hour rolling period.
- (15) NAC 445B.305 – The discharge of CO to the atmosphere will not exceed **304.5** pounds per hour during normal boiler operation.
- (16) NAC 445B.305 – The discharge of VOC (volatile organic compounds) to the atmosphere will not exceed **8.1** pounds per hour during normal boiler operation.



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Section V. Specific Operating Conditions (continued)

A. Emission Unit #S2.001 - Pulverized Coal Fired Boiler (continued)

2. NAC 445B.3405

a. Emission Limits (continued)

(17) NAC 445B.305 – The discharge of lead to the atmosphere will not exceed **0.05** pound per hour.

(18) NAC 445B.305 – The discharge of mercury to the atmosphere will not exceed **0.02** pound per gigawatt hour, based on a 12-month rolling period.

(19) NAC 445B.305 BACT Emission Limit – The discharge of Hydrogen Fluoride to the atmosphere will not exceed **1.17** pounds per hour.

(20) NAC 445B.305 – The discharge of Hydrogen Chloride to the atmosphere will not exceed **1.27** pounds per hour.

(21) NAC 445B.305 BACT Emission Limit – The discharge of Sulfuric Acid Mist to the atmosphere will not exceed **2.06** pounds per hour.

(22) SIP 445.721 Federally Enforceable SIP - The opacity from **S2.001** will not equal or exceed 20% for a period or periods aggregating more than 3 minutes in any one hour.

(23) NAC 445B.22017 – The opacity from **S2.001** will not equal or exceed 20%. The opacity must be determined as set forth in 445B.22017.1(a) or (b). **S2.001** is allowed one 6-minute period per hour of not more than 27 percent opacity as set forth in 40 CFR part 60.42a(2).

(24) NAC 445B.2202 – The opacity provisions in NAC 445B.22017 do not apply to emissions from a steam generating unit fired by fossil fuel or wood for boiler lancing or soot blowing, not to exceed 180 minutes in any 24 consecutive hours.

(25) 40 CFR Part 60.42Da(b) Federally Enforceable New Source Performance Standard Requirement - On and after the date the particulate matter performance test required to be conducted by Sec. 60.8 is completed, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any affected facility any gases which exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity.

3. NAC 445B.3405

Operating Parameters

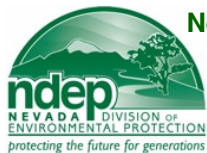
a. **S2.001** will combust sub-bituminous coal when operating at or above **450** million Btu per hour.

b. **S2.001** may combust #2 Distillate Fuel Oil for a maximum of **11.5** hours for each start-up, not to exceed **450** million Btu per hour heat input from combustion of #2 Distillate Fuel Oil.

c. **S2.001** may operate a total of 8,760 hours per calendar year.

d. The maximum operating heat input rate for **S2.001** while combusting sub-bituminous coal will not exceed **2,030** million Btu per any one-hour period.

e. **S2.001** may not combust #2 Distillate Fuel Oil with a sulfur content in excess of 0.05% Sulfur, by weight.



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Section V. Specific Operating Conditions (continued)

A. Emission Unit #S2.001 - Pulverized Coal Fired Boiler (continued)

4. NAC 445B.3405

Compliance, Monitoring, Recordkeeping and Reporting

a. Compliance/Performance Testing

Within 180 days of initial startup or within 60 days of achieving the maximum rate of production, whichever is sooner, on **S2.001** as required in Section II.A.3, and after 7,000 hours of operation of additional operation following the initial testing, but not greater than 8,760 hours of additional operation after initial testing of **S2.001**, the Permittee shall:

- (1) Conduct and record a Method 5 performance test for PM on the exhaust stack of **S2.001** consisting of three valid runs. The Method 5 emissions test must be conducted in accordance with 40 CFR Part 60, Appendix A, Method 5, and include the back-half catch. Compliance with the particulate matter standards contained in A.2.a.(1) through (4) shall be determined by using the dry basis F factor (O_2) procedures in Method 19 to compute the emissions rate. Method 5 shall be used to determine the particulate matter concentration. The sampling time and sample volume for each run shall be at least 120 minutes and 1.70 dscm (60 dscf). The probe and filter holder heating system in the sampling train may be set to provide an average gas temperature of $160 \pm 14^\circ C$ ($320 \pm 25^\circ F$). For each particulate run, the emission rate correction factor, integrated or grab sampling and analysis procedures of Method 3B shall be used to determine the O_2 concentration. The O_2 sample shall be obtained simultaneously with, and at the same traverse points as, the particulate run. If the particulate run has more than 12 traverse points, the O_2 traverse points may be reduced to 12 provided that Method 1 is used to locate the 12 O_2 traverse points (40 CFR Part 60.48a(b)). The daily coal sampling required in A.4.b.(4) of this section shall be performed during this test.
- (2) Conduct and record a Method 201A and 202 performance test for PM_{10} on the exhaust stack of **S2.001** consisting of three valid runs. The Method 201A and 202 emissions tests must be conducted in accordance with 40 CFR Part 51, Appendix M, Method 201A and 202. The Method 201A and 202 emissions tests may be replaced by the Method 5 performance test required in A.4.a.(1) above. All particulate captured in the Method 5 test will be considered PM_{10} for compliance demonstration purposes.
- (3) Conduct and record a Method 6 or 6C performance test for SO_2 on the exhaust stack of **S2.001** consisting of three valid runs. The Method 6 emissions test must be conducted in accordance with 40 CFR Part 60, Appendix A, Method 6 or 6C.
- (4) Conduct and record a Method 7 or 7E performance test for NO_x on the exhaust stack of **S2.001** consisting of three valid runs. The Method 7 emissions test must be conducted in accordance with 40 CFR Part 60, Appendix A, Method 7 or 7E.
- (5) Conduct and record a Method 10 performance test for CO on the exhaust stack of **S2.001** consisting of three valid runs. The Method 10 emissions test must be conducted in accordance with 40 CFR Part 60, Appendix A, Method 10.
- (6) Conduct and record a Method 25 or 25A performance test for VOC on the exhaust stack of **S2.001** consisting of three valid runs. The Method 25 emissions test must be conducted in accordance with 40 CFR Part 60, Appendix A, Method 25 or 25A.
- (7) Conduct and record a Method 29 performance test for Pb and Hg on the exhaust stack of **S2.001** consisting of three valid runs. The Method 29 emissions test must be conducted in accordance with 40 CFR Part 60, Appendix A, Method 29.
- (8) Conduct and record Method 26 performance test for HF and HCl on the exhaust stack of **S2.001** consisting of three valid runs. The Method 26 emissions test must be conducted in accordance with 40 CFR Part 60, Appendix A, Method 26.



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Section V. Specific Operating Conditions (continued)

A. Emission Unit #S2.001 - Pulverized Coal Fired Boiler (continued)

4. NAC 445B.3405

Compliance, Monitoring, Recordkeeping and Reporting (continued)

a. Compliance/Performance Testing (continued)

(9) Conduct and record Method 8A or Method 8B (Controlled Condensate Method) performance test for H₂SO₄ on the exhaust stack of **S2.001** consisting of three valid runs. The Method 8A or 8B emissions test must be conducted in accordance with the protocol for the specified method.

(10) During one of the three test runs required in A.4.a.(1) of this section, conduct and record a Method 9 visual opacity observation of the discharge from the exhaust stack of **S2.001**. The Method 9 opacity test must be conducted in accordance with the visible emissions evaluation procedures contained in 40 CFR Part 60, Appendix A, Method 9. A certified visible emissions reader must conduct the visible emissions evaluations for a period of at least 6 minutes. The opacity readings must be averaged such that compliance with both a 6-minute average and 2, 3-minute averages are determined (40 CFR Part 60.48a(b)(3)).

(11) The performance tests will be conducted at the maximum operating heat input rate limit established in **A.3.d** of this section for each pollutant required to be tested, unless otherwise approved pursuant to NAC 445B.252.2 & 3. **The Permittee** shall make available to the director such records as may be necessary to determine the conditions of the test of performance. Operations during periods of startup, shutdown and malfunction must not constitute representative conditions of a test of performance unless otherwise specified in the applicable standard (NAC 445B.252.3).

(12) **The Permittee** shall give notice to the director 30 days before the test of performance to allow the director to have an observer present. A written testing procedure for the test of performance must be submitted to the director at least 30 days before the test of performance to allow the director to review the proposed testing procedures (NAC 445B.252.4). **Alternatives to the reference methods and procedures provided in 40 CFR Part 60.48Da may be utilized to the extent that they are applicable to S2.001, and must be identified in the testing procedures as alternative methods, and must be approved in advance by NDEP.**

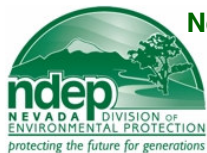
(13) During each performance test required in A.4.a.(1) through (5) of this section, record the quantity (in tons) of coal combusted during each test run, the heat content value of the coal combusted during each test run (in Btu/ton) and include these data in the test results submitted. The emissions results of the Method 6, Method 7, and Method 10 performance tests for SO₂, NO_x and CO must be converted to emissions of sulfur (both lb/hr and lb/MMBtu), emissions of nitrogen oxides (lb/MMBtu), and emissions of CO (both lb/hr and lb/MMBtu). The emissions results of the Method 5 or Method 201A and 202 performance test for PM₁₀ must be reported in lb/MMBtu.

(14) As a result of the most recent performance test performed in A.4.a.(1) and (2) of this section, derive emission factors for each of the following:

- (i). Pounds of PM per ton of coal (lbs-PM/tons-coal), filterable and condensable.
- (ii). Pounds of PM per ton of coal (lbs-PM/tons-coal), filterable only.
- (iii). Pounds of PM₁₀ per ton of coal (lbs-PM₁₀/tons-coal), filterable and condensable.
- (iv). Pounds of PM₁₀ per ton of coal (lbs-PM₁₀/tons-coal), filterable only.

These emissions factors will be based on the average of the 3 test runs.

(15) Within 60 days after completing the performance tests and opacity observations contained in A.4.a. of this section, **the Permittee** shall furnish the director a written report of the results of the performance tests, the opacity observations and the resultant emissions factors. All information and analytical results of testing and sampling must be certified as to the truth and accuracy and as to their compliance with NAC 445B.001 to 445B.3497 (NAC 445B.252.8).



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Section V. Specific Operating Conditions (continued)

A. *Emission Unit #S2.001 - Pulverized Coal Fired Boiler (continued)*

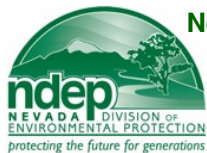
4. NAC 445B.3405

Compliance, Monitoring, Recordkeeping and Reporting

b. Monitoring

The Permittee, upon startup of **S2.001**, will:

- (1) Install, calibrate, operate and maintain a coal mass measurement device to continuously measure the amount of sub-bituminous coal (in tons) combusted in **S2.001**. The coal mass measurement device will be installed at an appropriate location in the fuel delivery system to accurately and continuously measure the fuel combusted in **S2.001**.
- (2) Install, calibrate, operate and maintain a Continuous Data Collection System (CDCS) to continuously record the quantity (in tons) of sub-bituminous coal as measured by the coal mass measurement device required in A.4.b.(1) of this section. The CDCS will be installed, calibrated, operated and maintained in accordance with the manufacturer's specifications.
- (3) Perform coal sampling of the coal prior to it entering the boiler. Sampling shall be conducted for moisture, ash, sulfur content and gross calorific value. Coal moisture, ash, sulfur content and gross calorific value will be recorded on 24-hour and 30-day rolling periods. A coal analysis shall be performed daily and the results of these analyses shall be retained for at least two years following the date of the measurement. All sample collection, sample preparation, and analyses performed or caused to be performed shall be conducted according to the most current ASTM methods.
- (4) Perform coal sampling of the sub-bituminous coal daily according to Section 12.5.3.2.2 in Method 19 in appendix A to Part 60 and use ASTM Method D2234-89, "Standard Test Methods for Collection of a Gross Sample of Coal." Determine the gross calorific value of the sub-bituminous coal combusted, collected in the daily sampling, using ASTM D2013-86, "Standard Method of Preparing Coal Samples for Analysis", ASTM D2015-91, "Standard Test Method for Gross Calorific Value of Coal and Coke by the Adiabatic Bomb Calorimeter", ASTM 1989-92, "Standard test Method for Gross Calorific Value of Coal and Coke by Microprocessor Controlled Isoperibol Calorimeters", or ASTM 3286-91a, "Standard Test Method for Gross Calorific Value of Coal and Coke by the Isoperibol Bomb Calorimeter." The appropriate ASTM methods will be used to determine the coal moisture, ash and sulfur contents.
- (5) Install, calibrate, operate and maintain a SO₂ continuous emissions monitor system (CEMS) (consisting of a SO₂ pollutant concentration monitors and flow monitoring devices) to continuously measure the concentrations and percent reduction of SO₂ (in ppm), percent reduction, volumetric gas flow (in SCFH), and SO₂ mass emissions (in lb/hr and lb/MMBtu) from **S2.001**. The CEMS will be installed at appropriate locations in the exhaust stack of **S2.001** to accurately and continuously measure the SO₂ concentrations in **S2.001** in accordance with the requirements prescribed in NAC 445B.256 to NAC 445B.267, 40 CFR Part 60.47a(b), 40 CFR Part 60, Appendix B, Performance Specification 2, 40 CFR Part 75, Part 75.11, 40 CFR Part 75 Subpart B; and the requirements for the annual Relative Accuracy Test Audit, as prescribed in 40 CFR Part 60, Appendix F.
 - (i) For demonstrating compliance with A.2.a.10 of this Section, SO₂ emissions shall be monitored at both the inlet and outlet of the sulfur dioxide control device in accordance with 40 CFR 60.47a(b)(1). The procedures established in 40 CFR Part 60.47a(i) shall be used to conduct monitoring system performance evaluations. (NSPS Subpart Da Requirement)
 - (ii) For demonstrating compliance with the removal efficiencies in A.2.a.8 of this Section: (BACT Requirement)
 - (a) SO₂ emissions shall be monitored at the outlet of the SO₂ control device.
 - (b) An "as fired" fuel monitoring system shall be used to determine SO₂ emissions, in accordance with 40 CFR 60.47a(b)(3).
 - (c) The procedures established in 40 CFR Part 60.47a(i) shall be used to conduct monitoring system performance evaluations.



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Section V. Specific Operating Conditions (continued)

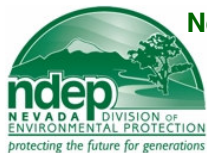
A. Emission Unit #S2.001 - Pulverized Coal Fired Boiler (continued)

4. NAC 445B.3405

Compliance, Monitoring, Recordkeeping and Reporting (continued)

b. Monitoring (continued)

- (6) Install, calibrate, operate and maintain a Continuous Data Collection System (CDCS) to continuously record the SO₂ concentration (in ppm), SO₂ percent reduction, volumetric gas flow (in SCFH), and SO₂ mass emissions (in lb/hr and lb/MMBtu), as measured by the CEMS required in A.4.b.(5) of this section, on a 1-hour, 3-hour, 24-hour and 30-day periods. Percent SO₂ reduction will be determined on a 30-day rolling period. The CDCS will be installed, calibrated, operated and maintained in accordance with the manufacturer's specifications and the requirements prescribed in NAC 445B.256 to NAC 445B.267, 40 CFR Part 60.49Da(b), 40 CFR Part 60, Appendix B, Performance Specifications, 40 CFR Part 75, Part 75.11, 40 CFR Part 75 Subpart B; and the requirements for the annual Relative Accuracy Test Audit, as prescribed in 40 CFR Part 60, Appendix F.
- (7) The results of the 1-hour average for SO₂ emissions (in lb/hr), determined in A.4.b.(6) of this section, shall be divided by 2 to obtain the average Sulfur emissions in lb/hour.
- (8) Install, calibrate, operate and maintain a NO_x continuous emissions monitor system (CEMS) (consisting of a NO_x pollutant concentration monitor and a flow monitoring device) to continuously measure the concentration of NO_x (in ppm), volumetric gas flow (in SCFH), and NO_x emissions rate (in lb/MMBtu) from **S2.001**. The CEMS will be installed at an appropriate location in the exhaust stack of **S2.001** to accurately and continuously measure the NO_x concentration in **S2.001** in accordance with the requirements prescribed in NAC 445B.256 to NAC 445B.267, 40 CFR Part 60.49Da(c), 40 CFR Part 60, Appendix B, Performance Specification 2, 40 CFR Part 75, Part 75.11, 40 CFR Part 75 Subpart B; and the requirements for the annual Relative Accuracy Test Audit, as prescribed in 40 CFR Part 60, Appendix F. The NO_x CEMS installed to meet the requirements of 40 CFR Part 75 may be used to meet the requirements of 40 CFR Part 60.49Da(c). The requirements established in 60.49Da continue to apply, except that **the Permittee** shall also meet the requirements of 40 CFR Part 60.49Da shall not include data substituted using the missing data procedures in subpart D of 40 CFR Part 75, nor shall the data have been bias adjusted according to the procedures of 40 CFR Part 75. The procedures established in 40 CFR Part 60.49Da(i) or (j) shall be used to conduct monitoring system performance evaluations.
- (9) Install, calibrate, operate and maintain a Continuous Data Collection System (CDCS) to continuously record the NO_x concentration (in ppm), volumetric gas flow (in SCFH), and NO_x emissions rate (in lb/MMBtu and ton/year), as measured by the CEMS required in A.4.b.(8) of this section, on a 24-hour, 30-day and 12-month rolling period. The CDCS will be installed, calibrated, operated and maintained in accordance with the manufacturer's specifications and the requirements prescribed in NAC 445B.256 to NAC 445B.267, 40 CFR Part 60, Appendix B, Performance Specification 2, 40 CFR Part 75, Part 75.11, 40 CFR Part 75 Subpart B; and the requirements for the annual Relative Accuracy Test Audit, as prescribed in 40 CFR Part 60, Appendix F.
- (10) Install, calibrate, operate and maintain a Continuous Data Collection System (CDCS) to continuously record the oxygen or carbon dioxide content of the flue gases at each location where sulfur dioxide or nitrogen oxides emissions are monitored (40 CFR Part 60.49Da(d)). The CDCS will be installed, calibrated, operated and maintained in accordance with the manufacturer's specifications and the requirements prescribed in NAC 445B.256 to NAC 445B.267.
- (11) Install, calibrate, operate and maintain a continuous opacity monitoring system to continuously measure and record the opacity from **S2.001**. The continuous opacity monitoring system will be installed at an appropriate location in the discharge stack of **S2.001** to accurately and continuously measure the opacity of **S2.001** in accordance with the requirements prescribed in NAC 445B.256 to NAC 445B.267, 40 CFR Part 60.49Da(a), 40 CFR Part 60, Appendix B, Performance Specification 1, and 40 CFR Part 75.10. If opacity interference due to water droplets exists in the stack, the opacity is monitored upstream of the interference.



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Section V. Specific Operating Conditions (continued)

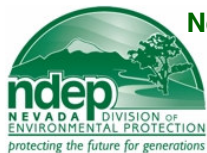
A. Emission Unit #S2.001 - Pulverized Coal Fired Boiler (continued)

4. NAC 445B.3405

Compliance, Monitoring, Recordkeeping and Reporting (continued)

b. Monitoring (continued)

- (12) Install, calibrate, operate and maintain a Continuous Data Collection System (CDCS) to continuously record the opacity (in percent opacity) as measured by the continuous opacity monitoring system required in A.4.b.(11) of this section. The CDCS will be installed, calibrated, operated and maintained in accordance with the manufacturer's specifications and the requirements prescribed in NAC 445B.256 to NAC 445B.267, 40 CFR Part 60.49Da(a), 40 CFR Part 60, Appendix B, Performance Specification 1, 40 CFR Part 75.10 and 40 CFR Part 75.14.
- (13) Install, calibrate, operate and maintain a CO continuous emissions monitor system (CEMS) (consisting of a CO pollutant concentration monitor and a flow monitoring device) to continuously measure the concentration of CO (in ppm), volumetric gas flow (in SCFH), and CO emissions rate (in lb/MMBtu) from **S2.001**, on a 3-hour and 24-hour rolling period. The CEMS will be installed at an appropriate location in the exhaust stack of **S2.001** to accurately and continuously measure the CO concentration in **S2.001** in accordance with the requirements prescribed in NAC 445B.256 to NAC 445B.267 and 40 CFR Part 60, Appendix B, Performance Specification 4.
- (14) Install, calibrate, operate and maintain a Continuous Data Collection System (CDCS) to continuously record the CO concentration (in ppm), volumetric gas flow (in SCFH), and CO emissions rate (in lb/MMBtu), as measured by the CEMS required in A.4.b.(13) of this section. The CDCS will be installed, calibrated, operated and maintained in accordance with the manufacturer's specifications and the requirements prescribed in NAC 445B.256 to NAC 445B.267 and 40 CFR Part 60, Appendix B, Performance Specification 4.
- (15) Install, calibrate, operate and maintain a fuel flow meter to continuously measure the mass amount of No. 2 distillate fuel oil (in pounds-mass) combusted in **S2.001** during start-up conditions. The fuel flow meter will be installed at an appropriate location in the fuel delivery system to accurately and continuously measure the fuel combusted in **S2.001** in accordance with the requirements prescribed in 40 CFR Part 75.
- (16) Install, calibrate, operate and maintain a Continuous Data Collection System (CDCS) to continuously record the mass amount of No. 2 distillate fuel oil (in pounds-mass) as measured by the fuel flow meter required in A.4.b.(15) of this section. The CDCS will be installed, calibrated, operated and maintained in accordance with the manufacturer's specifications and the requirements prescribed in 40 CFR Part 75.
- (17) Using either the Flow Proportional or Manual Method described in 40 CFR Part 75, Appendix D 2.2.1, 2.2.3, or 2.2.4 prepare a sample representative of the No. 2 distillate fuel oil combusted in **S2.001** for each day that a start-up occurs (or a composite sample representative of the entire tank upon delivery of No. 2 distillate fuel oil to the tank) while combusting that fuel. The sulfur content of the fuel oil sample shall be determined in accordance with the requirements prescribed in 40 CFR Part 75, Appendix D. The gross calorific value of this sample will be determined in accordance with ASTM D240-87 (Re-approved 1991), "Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter" or ASTM D2382-88, "Standard Test Method for Heat of Combustion of Hydrocarbon Fuels by Bomb Calorimeter (High Precision Method) and the requirements prescribed in 40 CFR Part 75, Appendix F, Section 3.3.6.2."
- (18) Within 180 days of initial startup of **S2.001**, the permittee will assemble the information required in A.b.4.20.(i) of this section such that BAPC can evaluate the percent reductions established for SO₂ in A.2.a.8 of this Section, based on actual performance of **S2.001**. The percent reductions will be adjusted according to the procedures outlined in A.4.b.20.(ii) of this Section. The Permittee will provide the assembled information postmarked within 240 days of initial startup.



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**CLASS I AIR QUALITY OPERATING PERMIT
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Issued to: Newmont Nevada Energy Investment, LLC, as Permittee

Section V. Specific Operating Conditions (continued)

A. Emission Unit #S2.001 - Pulverized Coal Fired Boiler (continued)

4. NAC 445B.3405

Compliance, Monitoring, Recordkeeping and Reporting (continued)

b. Monitoring (continued)

(19) The permittee will provide the information required in A.4.b.20.(i) of this section such that BAPC can re-evaluate the percent reductions values established for SO₂ in A.2.a.8 of this Section within 180 days of any change in the 30-day rolling period fuel sulfur content, as determined in A.4.b.3 of this section, in excess of $\pm 0.2\%$. The percent reductions will be adjusted according to the procedures outlined in A.4.b.20.(ii) of this Section.

(20) Procedure for truing percent reductions values in Section A.2.a.8 of this Section, as required by A.4.b.(18) or (19).

(i) The permittee will provide actual performance of **S2.001** as determined by data gathered by the CEMS and fuel sulfur monitoring for the preceding 180 day period. Data shall consist of:

- (a) As fired coal sulfur content on both a 24-hour and 30-day rolling period, as specified in A.4.b.(3) and (4) of this section.
- (b) Actual SO₂ percent removal on a 30-day rolling period, using the method specified in A.4.b.(5)(ii) of this section.
- (c) Actual SO₂ emissions, in pounds per million BTU, on a 24-hour rolling period, using the method specified in A.4.c.(4) of this section.

(ii) Within 60 days of the submittal required in A.4.b.20(i), the Bureau of Air Pollution Control (BAPC) will determine the basis to adjust the percent removal efficiencies in A.2.a.8(i)(b) and (ii)(b) as follows:

- (a) BAPC will increase or decrease the percent SO₂ removal efficiency criteria in A.2.a.8 of this section if the data show there is greater than a $\pm 1.0\%$ change in the SO₂ removal efficiency.

c. Recordkeeping

The Permittee will maintain a contemporaneous log containing at a minimum, the following recordkeeping for each day, or part of a day that **S2.001** is operating under this operating scenario:

(1) The total hourly quantity of:

- i. Sub-bituminous coal (in tons) combusted, for each hour of operation based on the data recorded by the CDCS as required in A.4.b.(2) of this section.
- ii. Fuel Oil (in lbs-mass) combusted, for each hour of operation, during boiler start-up, based on the data recorded by the CDCS as required in A.4.b.(16) of this section.

(2) Daily hours of operation:

- i. The total daily hours of operation for the corresponding date.
- ii. For boiler start-up, record the total hours of start-up operations while combusting fuel oil and hours of start-up operations while combusting sub-bituminous coal for the corresponding date.

(3) The moisture, ash and sulfur content of the coal, as required in A.4.b.3 of this section. The average heat content of the sub-bituminous coal in Btu/ton, and the fuel oil in Btu/lb-mass (during boiler start-up), combusted for the corresponding date. The heat content of the sub-bituminous coal will be based on the gross calorific value determined in A.4.b.(4) of this section. The heat content of the fuel oil will be based on the gross calorific value determined in A.4.b.(17) of this section.

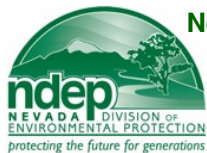
(4) The average hourly heat input of the sub-bituminous coal, or fuel oil combusted, in MMBtu per hour. The hourly heat inputs will be calculated from the hourly fuel usage rates recorded in A.4.c.(2) of this section, and the heat content of the fuel as recorded in A.4.c.(3) of this section.

Sample Calculation:

$$(\text{tons-coal/hr})(\text{Btu/ton-coal}) = \text{Btu/hr or MMBtu/hr}$$

or

$$(\text{lb-mass fuel oil/hr})(\text{Btu/lb-mass}) = \text{Btu/hr or MMBtu/hr}$$



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Section V. Specific Operating Conditions (continued)

A. Emission Unit #S2.001 - Pulverized Coal Fired Boiler (continued)

4. NAC 445B.3405

Compliance, Monitoring, Recordkeeping and Reporting (continued)

c. Recordkeeping (continued)

(5) The hourly emission rate of PM and PM₁₀ each:

- (i) In pounds per MMBtu (lbs/MMBtu). The hourly emission rates will be calculated from the heat content of the fuel determined in A.4.b.(4) of this section, and the emission factor derived in A.4.a.(14) of this section.

Sample Calculation:

$$\begin{aligned} (\text{tons-coal/Btu})(\text{lb/tons-coal}) &= \text{lbs-PM/Btu or lbs-PM/MMBtu} \\ (\text{tons-coal/Btu})(\text{lb/tons-coal}) &= \text{lbs-PM}_{10}\text{/Btu or lbs-PM}_{10}\text{/MMBtu} \end{aligned}$$

- (ii) In pounds per hour (lbs/hr). The hourly emission rates will be calculated from the hourly tonnage of coal combusted, as determined in A.4.b.(1) of this section, the emission factor derived in A.4.a.(14) of this section,.

Sample Calculation:

$$\begin{aligned} (\text{tons-coal/hour})(\text{lb/tons-coal}) &= \text{lbs-PM/hr} \\ (\text{tons-coal/hr})(\text{lb/tons-coal}) &= \text{lbs-PM}_{10}\text{/Btu} \end{aligned}$$

(6) The emission rates of sulfur and SO₂ each, in pounds per hour (lbs/hr) and pounds per million Btu (lbs/MMBtu) measured by the CEMS required in A.4.b.(6) of this section; and the “as fired” fuel monitoring required in A.4.b.(5)(ii) of this section, for each averaging period described below:

- (i). The sulfur emissions in pounds per hour (lbs/hr) for each 1-hour period. Sulfur emissions will be one-half of the SO₂ emissions measured.
- (ii). The Sulfur and SO₂ emissions in pounds per million Btu (lbs/MMBtu)
- (iii) The percent reduction levels required in A.2.a.10 of this section on a 30-day rolling period. (NSPS Subpart Da requirement)
- (iv) The percent reduction levels required in A.2.a.8 of this section on a 30-day rolling period. (BACT requirement)

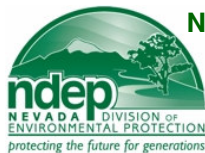
The compliance determination procedures established in 40 CFR Part 60.48a(c) will be used to convert the continuous monitoring data into units of the applicable standards (lb/MMBtu and lbs/hr, 3-hour, 24-hour and 30-day rolling average periods and percent reduction).

(7) The hourly emissions rate of NO_x in pounds per million Btu (lbs/MMBtu) and the percent reduction levels for each 30-day rolling average period measured by the CEMS required in A.4.b.(8) of this section. The compliance determination procedures established in 40 CFR Part 60.48a(d) will be used to convert the continuous monitoring data into units of the applicable standard (lb/MMBtu, 24-hour, 30-day, annual rolling average periods, percent reduction and 3-hour average during boiler start-up).

(8) The measured opacity (in percent opacity) from the continuous opacity monitoring system required in A.4.b.(13) of this section. The opacity will be determined from reducing all data from the successive 10-second readings and recorded for the following:

- (i). Each 6-minute average, except for one 6-minute period per hour of up to 27 percent opacity as established in NAC 445B.22017.1(b) and as set forth in 40 CFR Part 60.13(h).
- (ii). Each 6-minute average, except for one 6-minute period per hour of up to 27 percent opacity as established in 40 CFR Part 60.42a(b).

(9) The emissions rate of CO in pounds per million Btu (lbs/MMBtu) and pounds per hour (lbs/hr) measured by the CEMS required in A.4.b.(13) of this section. The compliance determination procedures established in 40 CFR 60.48Da will be used to convert the continuous monitoring date into units of the applicable standard (lbs/MMBtu and lbs/hr, 3-hour (steady state and boiler start-up) and 24-hour rolling average periods).



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Section V. Specific Operating Conditions (continued)

B. Emission Unit S2.002 through S2.005 – Backup Combustion Turbines.

System 02A Back-up Combustion Turbines, No. 2 Distillate Fuel Oil Fired

S2.002	Simple Cycle Combustion Turbine #1 , General Electric, Model-LM6000, Serial Number-TBD, Manufacture Date TBD. 373.3 million Btu/hr Maximum Heat Input, 35 MW Output
S2.003	Simple Cycle Combustion Turbine #2 , General Electric, Model-LM6000, Serial Number-TBD, Manufacture Date TBD. 373.3 million Btu/hr Maximum Heat Input, 35 MW Output
S2.004	Simple Cycle Combustion Turbine #3 , General Electric, Model-LM6000, Serial Number-TBD, Manufacture Date TBD. 373.3 million Btu/hr Maximum Heat Input, 35 MW Output
S2.005	Simple Cycle Combustion Turbine #4 , General Electric, Model-LM6000, Serial Number-TBD, Manufacture Date TBD. 373.3 million Btu/hr Maximum Heat Input, 35 MW Output

1. NAC 445B.3405

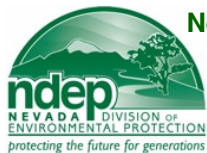
Air Pollution Equipment

- a. Emissions from **S2.002 through S2.005** each shall be controlled by water injection (BACT requirement), low sulfur fuel and good combustion controls. Emissions from **S2.002 through S2.005** shall be ducted to the following emissions control system with 100% capture and a maximum volume flow rate of 205,312 dry standard cubic feet per minute (DSCFM) per exhaust stack:
- (1) Selective Catalyst Reduction (SCR) system for the control of NO_x emissions. The SCR shall utilize ammonia injection into the SCR at a volume specified by the manufacturer.
 - (2) Oxidation catalyst system for the control of CO emissions. If the selected BACT emission level of 6.0 ppmv, at 15% O₂, can be achieved in operation without utilizing the catalyst technology, the Permittee may petition the Director and the EPA Regional Administrator to reconsider the BACT technology selection.
- b. Each turbine has a stack with the following characteristics:
- | | | | |
|-----------------|-----------|--------------------|--------------|
| Stack Height: | 105.00 ft | Stack Velocity: | 114.8 ft/sec |
| Stack Diameter: | 10.5 ft | Stack Temperature: | 743.9 °F |

2. NAC 445B.3405

Emission Limits

- a. On and after the date of startup of **S2.002 through S2.005**, each, **the Permittee** will not discharge or cause the discharge into the atmosphere from the exhaust stack of **S2.002 through S2.005**, each, the following pollutants in excess of the following specified limits:
- (1) NAC 445B.305 – The discharge of **PM₁₀** and **PM** (particulate matter less than 10 microns in diameter and particulate matter) to the atmosphere will not exceed **13.7** pounds per hour.
 - (2) SIP 445.731 Federally Enforceable SIP - The discharge of **PM** to the atmosphere will not exceed **0.26** pound per million Btu.
 - (3) NAC 445B.2203 – The discharge of **PM₁₀** to the atmosphere will not exceed **0.26** pound per million Btu.
 - (4) NAC 445B.305 BACT Emission Limit – The discharge of **PM₁₀** (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed 13.7 pounds per hour, filterable and condensable.
 - (5) SIP Article 8.2.1.1 Federally Enforceable SIP – The discharge of **sulfur** to the atmosphere will not exceed **149.3** pounds per hour.
 - (6) NAC 445B.22047 – The discharge of **sulfur** to the atmosphere will not exceed **149.3** pounds per hour.
 - (7) NAC 445B.305 – The discharge of **SO₂** (sulfur dioxide) to the atmosphere will not exceed **19.1** pounds per hour.



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Section V. Specific Operating Conditions (continued)

B. Emission Unit S2.002 through S2.005 - Backup Combustion Turbines. (continued)

2. NAC 445B.3405

a. Emission Limits (continued)

- (8) NAC 445B.305 – The discharge of **NO_x** (oxides of nitrogen) to the atmosphere will not exceed **38.2** tons per year.
- (9) NAC 445B.305 BACT Emission Limit – The discharge of **NO_x** to the atmosphere will not exceed **6.0** parts per million by volume (ppmv), at 15 percent oxygen and on a dry basis, based on a 3-hour rolling period.
- (10) NAC 445B.305 – The discharge of **CO** (carbon monoxide) to the atmosphere will not exceed **5.3** pounds per hour.
- (11) NAC 445B.305 BACT Emission Limit – The discharge of **CO** to the atmosphere will not exceed **6.0** ppmv at 15 percent oxygen and on a dry basis, based on a 3-hour rolling period.
- (12) NAC 445B.305 – The discharge of **VOC** (volatile organic compounds) to the atmosphere will not exceed **1.5** pounds per hour, or exceed **6.7** tons per year.
- (13) NAC 445B.305 BACT Emission Limit – The discharge of Sulfuric Acid Mist to the atmosphere will not exceed **2.9** pounds per hour.
- (14) NAC 445B.22017 – The opacity from **S2.002 through S2.005** each will not equal or exceed **20%**. The opacity must be determined as set forth in 445B.22017.1(a) or (b).
- (15) SIP 445.721 Federally Enforceable SIP - The opacity from **S2.002 through S2.005** will not equal or exceed **20%** for a period or periods aggregating more than 3 minutes in any one hour.
- (16) NAC 445B.305 – The discharge of Manganese (Mn) from **S2.002 through S2.005**, each, will not exceed **0.295** pound per hour.

b. New Source Performance Standards - Subpart GG-Standards of Performance for Stationary Gas Turbines (40 CFR Part 60.330)

On and after the sixtieth day after achieving the maximum production rate at which **S2.002 through S2.005** will be operated, but not later than 180 days after initial startup, **the Permittee** will not discharge or cause the discharge into the atmosphere from **S2.002 through S2.005** the following pollutants in excess of the following specified limits:

- (1) Emissions of **NO_x** (nitrogen oxides) in excess of **0.0121** percent (121 ppm) by volume at 15 percent oxygen and on a dry basis (40 CFR Part 60.332(a)(1)). This limit assumes an F value of 0, as defined in 40 CFR Part 60.332(a)(3). Should testing demonstrate an F value greater than zero, this emission limit will be amended accordingly.
- (2) Emissions of **SO₂** (Sulfur Dioxide) in excess of **0.015** percent (150 ppm) by volume at 15 percent oxygen and on a dry basis (40 CFR Part 60.332(a)).
- (3) **The Permittee** will not burn any fuel that contains sulfur in excess of **0.8** percent by weight (40 CFR Part 60.333(b)).
- (4) Stationary gas turbines using water or steam injection for control of **NO_x** emissions are exempt from paragraph B.2.b.1 when ice fog is deemed a traffic hazard by the owner or operator of the gas turbine (40 CFR Part 60.332(f)).
- (5) At all times, including periods of startup, shutdown, and malfunction, **the Permittee** shall, to the extent practicable, maintain and operate **S2.002 through S2.005** including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions (40 CFR Part 60.11(d))



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Section V. Specific Operating Conditions (continued)

B. Emission Unit S2.002 through S2.005 - Backup Combustion Turbines. (continued)

3. NAC 445B.3405

Operating Parameters

- a. BACT Operating Parameter - **S2.002 through S2.005**, each, may combust No. 2 distillate fuel oil only, with a maximum sulfur content of 0.05 weight percent sulfur.
- b. **S2.002 through S2.005**, each, shall not operate while **S2.001** is operating, except during periods of overlapping startup and shutdown.
- c. The maximum operating heat input rate for **S2.002 through S2.005**, each, will not exceed 373.3 million Btu per any one-hour period.
- d. **S2.002 through S2.005**, each, may operate 8,760 hours per year.

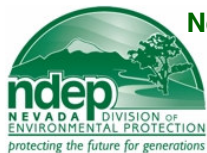
4. NAC 445B.3405

Compliance, Monitoring, Recordkeeping and Reporting

a. Compliance/Performance Testing

Within 60 days of the notification of initial startup of **S2.002 through S2.005**, each, as required in Section II.A.3, and after 7,000 hours of additional operation following the initial testing, but not greater than 8,760 hours of additional operation after initial testing of **S2.002 through S2.005**, each, *the Permittee* shall:

- (1) Conduct and record a Method 5 performance test for PM on the exhaust stacks of **S2.002 through S2.005**, each, consisting of three valid runs. The Method 5 emissions test must be conducted in accordance with 40 CFR Part 60, Appendix A, Method 5 and include the back-half catch.
- (2) Conduct and record a Method 201A and 202 performance test for PM₁₀ on the exhaust stacks of **S2.002 through S2.005**, each, consisting of three valid runs. The Method 201A and 202 emissions tests must be conducted in accordance with 40 CFR Part 51, Appendix M, Method 201A and 202. The Method 201A and 202 emissions tests may be replaced by a Method 5 performance test, including the back-half catch. All particulate captured in the Method 5 test will be considered PM₁₀ for compliance demonstration purposes.
- (3) Conduct and record a Method 20 performance test for NO_x, SO₂, and oxygen on the exhaust stack of **S2.002 through S2.005**, each, consisting of three valid runs. The Method 20 emissions test must be conducted in accordance with 40 CFR Part 60, Appendix A, Method 20.
- (4) Conduct and record a Method 10 performance test for CO on the exhaust stacks of **S2.002 through S2.005**, each, consisting of three valid runs. The Method 10 emissions test must be conducted in accordance with 40 CFR Part 60, Appendix A, Method 10.
- (5) Conduct and record a Method 25 performance test for VOC on the exhaust stacks of **S2.002 through S2.005**, each, consisting of three valid runs. The Method 25 emissions test must be conducted in accordance with 40 CFR Part 60, Appendix A, Method 25.
- (6) Conduct and record a performance test for formaldehyde on the exhaust stacks of **S2.002 through S2.005**, each, consisting of three valid runs. Use either Method 320 or 323 of 40 CFR Part 63 or ASTM D6348-03 (the percent R must be greater than or equal to 70 and less than or equal to 130).



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Section V. Specific Operating Conditions (continued)

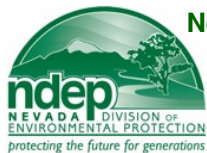
B. Emission Unit S2.002 through S2.005 - Backup Combustion Turbines. (continued)

4. NAC 445B.3405 (continued)

Compliance, Monitoring, Recordkeeping and Reporting

a. Compliance/Performance Testing (continued)

- (7) Conduct and record a Method 29 performance test for Manganese on the exhaust stacks of **S2.002 through S2.005**, each, consisting of three valid runs. The Method 29 emissions test must be conducted in accordance with 40 CFR Part 60, Appendix A, Method 29.
 - (8) Conduct and record Method 8 performance test for H₂SO₄ on the exhaust stack of **S2.002 through S2.005** consisting of three valid runs. The Method 8 emissions test must be conducted in accordance with 40 CFR Part 60, Appendix A, Method 8.
 - (9) During one of the three test runs required in B.4.a.(1) of this section, conduct and record a Method 9 visual opacity observation of the discharge from the exhaust stack of **S2.002 through S2.005**. The Method 9 opacity test must be conducted in accordance with the visible emissions evaluation procedures contained in 40 CFR Part 60, Appendix A, Method 9. A certified visible emissions reader must conduct the visible emissions evaluations for a period of at least 6 minutes. The opacity readings must be averaged such that compliance with both a 6-minute average and 2, 3-minute averages are determined (40 CFR Part 60.48a(b)(3)).
 - (10) The performance tests will be conducted at the maximum operating heat input rate limit established in B.3.c of this section for each pollutant required to be tested, unless otherwise approved pursuant to NAC 445B.252.2 & 3. **The Permittee** shall make available to the director such records as may be necessary to determine the conditions of the test of performance. Operations during periods of startup, shutdown and malfunction must not constitute representative conditions of a test of performance unless otherwise specified in the applicable standard (NAC 445B.252.3).
 - (11) **The Permittee** shall give notice to the director 30 days before the test of performance to allow the director to have an observer present. A written testing procedure for the test of performance must be submitted to the director at least 30 days before the test of performance to allow the director to review the proposed testing procedures (NAC 445B.252.4).
 - (12) During each performance test required in B.4.a.(1) through (8) of this section, record the quantity (in pounds-mass) and heat content value of the No. 2 distillate fuel oil combusted (in Btu per pound), and include these data in the test results submitted.
 - (13) As a result of the most recent performance test performed in B.4.a.(1) and (2) of this section, derive emission factors for each of the following:
 - (i) Pounds of PM per pound-mass of No. 2 distillate fuel oil (lbs-PM/lbm-No. 2 Distillate)
pounds of PM per MMBtu of No. 2 distillate fuel oil (lbs-PM/MMBtu)
 - (ii) Pounds of PM₁₀ per pound-mass of No. 2 distillate fuel oil (lbs-PM₁₀/lbm-No. 2 Distillate)
pounds of PM₁₀ per MMBtu of No. 2 distillate fuel oil (lbs- PM₁₀ /MMBtu)
- These emissions factors will be based on the average of the 3 test runs.
- (14) Within 60 days after completing the performance tests and contained in B.4.a. of this section, **the Permittee** shall furnish the director a written report of the results of the performance tests and the resultant emissions factors. All information and analytical results of testing and sampling must be certified as to the truth and accuracy and as to their compliance with NAC 445B.001 to 445B.3497 (NAC 445B.252.8).



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Section V. Specific Operating Conditions (continued)

B. Emission Unit S2.002 through S2.005 - Backup Combustion Turbines. (continued)

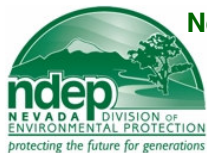
4. NAC 445B.3405 (continued)

Compliance, Monitoring, Recordkeeping and Reporting

b. Monitoring

The Permittee, upon startup of **S2.002 through S2.005** will:

- (1) Install, calibrate, operate and maintain a fuel flow meter to continuously measure the mass amount of No. 2 distillate fuel oil (in pounds-mass) combusted in **S2.002 through S2.005**. The fuel flow meter will be installed at an appropriate location in the fuel delivery system to accurately and continuously measure the fuel combusted in **S2.002 through S2.005** in accordance with the requirements prescribed in 40 CFR Part 75.
- (2) Install, calibrate, operate and maintain a Continuous Data Collection System (CDCS) to continuously record the mass amount of No. 2 distillate fuel oil (in pounds-mass) as measured by the fuel flow meter required in B.4.b.(1) of this section. The CDCS will be installed, calibrated, operated and maintained in accordance with the manufacturer's specifications and the requirements prescribed in 40 CFR Part 75.
- (3) Using either the Flow Proportional or Manual Method described in 40 CFR Part 75, Appendix D 2.2.1, 2.2.3, or 2.2.4 prepare a sample representative of the No. 2 distillate fuel oil combusted in **S2.002 through S2.005** for each day of operation (or a composite sample representative of the entire tank upon delivery of No. 2 distillate fuel oil to the tank) while combusting that fuel. The sulfur content of the fuel oil sample shall be determined in accordance with the requirements prescribed in 40 CFR Part 75, Appendix D. The gross calorific value of this sample will be determined in accordance with ASTM D240-87 (Re-approved 1991), "Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter" or ASTM D2382-88, "Standard Test Method for Heat or Combustion of Hydrocarbon Fuels by Bomb Calorimeter (High Precision Method) and the requirements prescribed in 40 CFR Part 75, Appendix F, Section 3.3.6.2."
- (4) The owner or operator of any stationary gas turbine subject to the provisions of this subpart and using water injection to control NO_x emissions shall install and operate a continuous monitoring system to monitor and record the fuel consumption and the ratio of water to fuel being fired in the turbine. This system shall be accurate to within ±5.0 percent and shall be approved by the Administrator. (40 CFR 60.334(a)).
- (5) The owner or operator of any stationary gas turbine subject to the provisions of this subpart shall monitor sulfur content and nitrogen content of the fuel being fired in the turbine. The frequency of determination of these values shall be as follows: (40 CFR 60.334(b))
 - (i) If the turbine is supplied its fuel from a bulk storage tank, the values shall be determined on each occasion that fuel is transferred to the storage tank from any other source.
 - (ii) If the turbine is supplied its fuel without intermediate bulk storage the values shall be determined and recorded daily. Owners, operators or fuel vendors may develop custom schedules for determination of the values based on the design and operation of the affected facility and the characteristics of the fuel supply. These custom schedules shall be substantiated with data and must be approved by the Administrator before they can be used to comply with paragraph B.4.b.5 of this section.



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Section V. Specific Operating Conditions (continued)

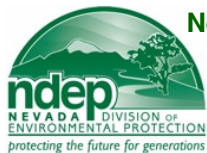
B. Emission Unit S2.002 through S2.005 - Backup Combustion Turbines. (continued)

4. NAC 445B.3405 (continued)

Compliance, Monitoring, Recordkeeping and Reporting

b. Monitoring (continued)

- (6) To meet the requirements of B.4.b.5, the owner or operator shall use the methods specified below to determine the nitrogen and sulfur contents of the fuel being burned. The analysis may be performed by the owner or operator, a service contractor retained by the owner or operator, the fuel vendor, or any other qualified agency. (40 CFR 60.335(e))
 - (i) To compute the nitrogen oxides emissions, the Permittee shall use analytical methods and procedures that are accurate to within 5 percent and are approved by the Administrator to determine the nitrogen content of the fuel being fired.
 - (ii) The Permittee shall determine compliance with the sulfur content standard in B.2.b of this Section by using ASTM D 2880-71, 78, or 96 for liquid fuels.
- (7) Substitute any missing fuel flow meter data in accordance with the requirements prescribed in 40 CFR Part 75, Appendix D, Section 2.4.3.2. Substitute any missing sulfur content data in accordance with the requirements prescribed in 40 CFR Part 75, Appendix D, Section 2.4.1. Substitute any missing gross calorific value data in accordance with the requirements prescribed in 40 CFR Part 75, Appendix D, Section 2.4.2.
- (8) Install, calibrate, operate and maintain a NO_x continuous emissions monitor system (CEMS) (consisting of a NO_x pollutant concentration monitor and an O₂ or CO₂ diluent gas analyzer) to continuously measure the concentration of NO_x (in ppm) and O₂ or CO₂ concentrations (in percent O₂ or CO₂) from **S2.002 through S2.005**, each. The CEMS will be installed at an appropriate location in the exhaust stacks of **S2.002 through S2.005** to accurately and continuously measure the NO_x concentration in **S2.002 through S2.005** in accordance with the requirements prescribed in 40 CFR Part 75, Part 75.12 and Appendix F, 40 CFR Part 60, Appendix B and Appendix F.
- (9) Install, calibrate, operate and maintain a Continuous Data Collection System (CDCS) to continuously record the NO_x concentration (in ppm and ton/year), as measured by the CEMS required in B.4.b.(8) of this section, on a 3-hour and 12-month rolling period. The CDCS will be installed, calibrated, operated and maintained in accordance with the manufacturer's specifications and the requirements prescribed in 40 CFR Part 75, Part 75.12 and Appendix F, 40 CFR Part 60, Appendix B and Appendix F.
- (10) Install, calibrate, operate and maintain a CO continuous emissions monitor system (CEMS) to continuously measure the concentration of CO (in ppm) from **S2.002 through S2.005**, each. The CEMS will be installed at an appropriate location in the exhaust stack of **S2.002 through S2.005** to accurately and continuously measure the CO concentration in **S2.002 through S2.005** in accordance with the requirements prescribed in 40 CFR Part 75, Part 75.12 and Appendix F, 40 CFR Part 60, Appendix B and Appendix F.
- (11) Install, calibrate, operate and maintain a Continuous Data Collection System (CDCS) to continuously record the CO concentration (in ppm and lb/hr) as measured by the CEMS required in B.4.b.(10) of this section on a 3-hour rolling period. The CDCS will be installed, calibrated, operated and maintained in accordance with the manufacturer's specifications and the requirements prescribed in 40 CFR Part 75, Part 75.12 and Appendix F, 40 CFR Part 60, Appendix B and Appendix F.



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Section V. Specific Operating Conditions (continued)

B. Emission Unit S2.002 through S2.005 - Backup Combustion Turbines. (continued)

4. NAC 445B.3405 (continued)

Compliance, Monitoring, Recordkeeping and Reporting

b. Monitoring (continued)

(12) Install, calibrate, operate and maintain a continuous opacity monitoring system to continuously measure and record the opacity from **S2.002 through S2.005**. The continuous opacity monitoring system will be installed at an appropriate location in the discharge stack of **S2.002 through S2.005** to accurately and continuously measure the opacity of **S2.002 through S2.005** in accordance with the requirements prescribed in NAC 445B.256 to NAC 445B.267, 40 CFR Part 60.47a(a), 40 CFR Part 60, Appendix B, Performance Specification 1, and 40 CFR Part 75.10. If opacity interference due to water droplets exists in the stack, the opacity is monitored upstream of the interference.

(13) Install, calibrate, operate and maintain a Continuous Data Collection System (CDCS) to continuously record the opacity (in percent opacity) as measured by the continuous opacity monitoring system required in A.4.b.(12) of this section. The CDCS will be installed, calibrated, operated and maintained in accordance with the manufacturer's specifications and the requirements prescribed in NAC 445B.256 to NAC 445B.267, 40 CFR Part 60.47a(a), 40 CFR Part 60, Appendix B, Performance Specification 1, 40 CFR Part 75.10 and 40 CFR Part 75.14.

c. Recordkeeping

The Permittee will maintain a CDCS or a contemporaneous log containing at a minimum, the following recordkeeping for each day, or part of a day that **S2.002 through S2.005** is operating under this operating scenario:

- (1) The name of the operating scenario and the calendar date of any required monitoring.
- (2) The total hourly mass amount of No. 2 distillate fuel oil combusted, in pounds-mass (lbm) for each hour of operation based on the data recorded by the CDCS required in B.4.b.(2) of this section.
- (3) The total daily hours of operation for the corresponding date.
- (4) The heat content of the fuel combusted for the corresponding date, in Btu per pound (Btu/lb) The heat content of the fuel will be based on the gross calorific value determined in B.4.b.(3) of this section.
- (5) The hourly heat input of the No. 2 distillate fuel oil combusted, in MMBtu per hour. The hourly heat inputs will be calculated from the hourly fuel flow rates recorded in B.4.c.(2) of this section, and the heat content of the fuel recorded in B.4.c.(3) of this section.

Sample Calculation:

$$(\text{lbm-No. 2 Distillate/hr})(\text{Btu/lbs}) = \text{Btu/hr or MMBtu/hr}$$

- (6) The hourly emission rate of PM and PM₁₀ each, in pounds per hour (lbs/hr) The hourly emission rates will be calculated from the hourly quantity of No. 2 distillate fuel oil combusted determined in B.4.c.(2) of this section, and the emission factor derived in B.4.a.(13) of this section.

Sample Calculation:

$$\begin{aligned} (\text{lbm-No. 2 Distillate/hr})(\text{lbs-PM/lbm-No. 2 Distillate}) &= \text{lbs-PM/hr} \\ \text{or} \\ (\text{MMBtu - No. 2 Distillate/hr})(\text{lbs-PM/MMBtu - No. 2 Distillate}) &= \text{lbs-PM/hr} \end{aligned}$$



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Section V. Specific Operating Conditions (continued)

B. Emission Unit S2.002 through S2.005 - Backup Combustion Turbines. (continued)

4. NAC 445B.3405 (continued)

Compliance, Monitoring, Recordkeeping and Reporting

c. Recordkeeping (continued)

- (7) The hourly emission rate of PM and PM₁₀ each, in pounds per MMBtu (lbs/MMBtu) The hourly emission rates will be calculated from the heat content of the fuel determined in B.4.b.(3) of this section, and the emission factors derived in B.4.a.(13) of this section.

Sample Calculation:

$$(\text{lbm-No. 2 Distillate/Btu})(\text{lbs-PM/lbm-No. 2 Distillate}) = \text{lbs-PM/Btu or lbs-PM/MMBtu}$$

- (8) The hourly emission rate of sulfur and SO₂ in pounds per hour (lbs/hr) The hourly emission rate will be calculated from the sulfur content of the fuel determined in B.4.b.(3) and the mass amount of fuel combusted as determined in B.4.b.(2) of this section.

Sample Calculation:

$$\begin{aligned} (\% \text{ sulfur-No. 2 Distillate}/100)(\text{lbm-No. 2 Distillate/hr}) &= \text{lbs-sulfur/hr} \\ (\% \text{ sulfur-No. 2 Distillate}/100)(\text{lbm-No. 2 Distillate/hr})(2) &= \text{lbs-SO}_2/\text{hr} \end{aligned}$$

- (9) The measured NO_x emissions from the CEMS required in B.4.b.(8) of this section. The NO_x emissions will be determined from reducing all data from the continuous readings and recorded for the NO_x concentrations in parts per million by volume (ppmv) for each 24-hour period (40 CFR Part 75.12)
- (10) The measured CO emissions from the CEMS required in B.4.b.(10) of this section. The CO emissions will be determined from reducing all data from the continuous readings and recorded for the CO concentrations in parts per million by volume (ppmv) for each 24-hour period (40 CFR Part 75.12).

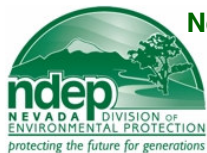
d. Reporting

The Permittee will:

- (1) **Federally Enforceable New Source Performance Standard Requirement** - Subpart GG-Standards of Performance for Stationary Gas Turbines (40 CFR Part 60.330)

For the purpose of reports required under 60.7(c), periods of excess emissions that shall be reported are defined as follows:

- (i) Nitrogen oxides. Any one-hour period during which the average water-to-fuel ratio, as measured by the continuous monitoring system, falls below the water-to-fuel ratio determined to demonstrate compliance with B.2.b.1 by the performance test required in 40 CFR 60.8 or any period during which the fuel-bound nitrogen of the fuel is greater than the maximum nitrogen content allowed by the fuel-bound nitrogen allowance used during the performance test required in 40 CFR 60.8. Each report shall include the average water-to-fuel ratio, average fuel consumption, ambient conditions, gas turbine load, and nitrogen content of the fuel during the period of excess emissions, and the graphs or figures developed under 40 CFR 60.335(c)(1).
- (ii) Sulfur dioxide. Any daily period during which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8 percent.
- (iii) Ice fog. Each period during which an exemption provided in B.2.b.4 is in effect shall be reported in writing to the Administrator quarterly. For each period the ambient conditions existing during the period, the date and time the air pollution control system was deactivated, and the date and time the air pollution control system was reactivated shall be reported. All quarterly reports shall be postmarked by the 30th day following the end of each calendar quarter.



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Section V. Specific Operating Conditions (continued)

C. Emission Units PF1.001 through PF1.005 – Fugitive Coal Handling Operations, Coal Rail Car Unloading.

System 03 Coal Rail Car Unloading Operations

PF1.001 Rail Car transfer to Hoppers
PF1.002 Hopper transfer to Belt Feeder 1A
PF1.003 Hopper transfer to Belt Feeder 1B
PF1.004 Feeder 1A transfer to Conveyor 2A
PF1.005 Feeder 1B transfer to Conveyor 2A

1. NAC 445B.3405

Air Pollution Equipment

Emissions from **PF1.001 through PF1.005** shall be controlled by fogging water sprays and enclosures located at **PF1.001 through PF1.005**.

2. NAC 445B.3405

Emission Limits

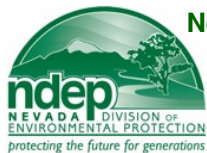
On and after the date of startup of **PF1.001 through PF1.005**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.001 through PF1.005**, the following pollutants in excess of the following specified limits:

a. PF1.001 – Rail – Car transfer to Hoppers

- (1) NAC 445B.305 – The discharge of **PM** (particulate matter) to the atmosphere from **PF1.001** will not exceed **0.02** pound per hour, or exceed **0.002** ton per year. This limit is less than the **94.962** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum combined allowable throughput as limited by 3.a of this section.
- (2) NAC 445B.305 – The discharge of **PM₁₀** (particulate matter less than 10 microns in diameter) to the atmosphere from **PF1.001** will not exceed **0.02** pound per hour, or exceed **0.013** ton per year. This limit is less than the **96.0** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum combined allowable throughput as limited by 3.a of this section.
- (3) SIP 445.721 *Federally Enforceable SIP Requirement* – The opacity from **PF1.001** will not equal or exceed 20% for a period or periods aggregating more than 3 minutes in any one hour in accordance with SIP 445.721.
- (4) NAC 445B.22017 – The opacity from **PF1.001** will not equal or exceed 20% in accordance with NAC 445B.22017.

b. PF1.002 and PF1.003 – Hopper transfer to Feeders

- (1) NAC 445B.305 – The discharge of **PM** (particulate matter) to the atmosphere from **PF1.002 and PF1.003** will not exceed **0.02** pound per hour, each, or exceed **0.002** ton per year, combined. This limit is less than the **96.0** pounds per hour, combined, maximum allowable emission limit as determined from NAC 445B.22033 and the maximum combined allowable throughput as limited by 3.a of this section.
- (2) NAC 445B.305 – The discharge of **PM₁₀** (particulate matter less than 10 microns in diameter) to the atmosphere from **PF1.002 and PF1.003** will not exceed **0.02** pound per hour, combined, or exceed **0.002** ton per year, each, or **0.002** ton per year, combined. This limit is less than the **96.0** pounds per hour, combined, maximum allowable emission limit as determined from NAC 445B.22033 and the maximum combined allowable throughput as limited by 3.a of this section.
- (3) SIP 445.721 *Federally Enforceable SIP Requirement* – The opacity from **PF1.002 and PF1.003** each will not equal or exceed 20% for a period or periods aggregating more than 3 minutes in any one hour in accordance with SIP 445.721.
- (4) NAC 445B.22017 – The opacity from **PF1.002 and PF1.003** each will not equal or exceed 20% in accordance with NAC 445B.22017.



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Section V. Specific Operating Conditions (continued)

C. Emission Units PF1.001 through PF1.007 – Fugitive Coal Handling Operations, Coal Rail Car Unloading. (continued)

2. NAC 445B.3405 Emission Limits (continued)

c. **PF1.004 and PF1.005** – Feeder Transfer to Conveyor

- (1) NAC 445B.305 – The discharge of **PM** (particulate matter) to the atmosphere from **PF1.004 and PF1.005** will not exceed **0.02** pound per hour, each, or exceed **0.002** ton per year, combined. This limit is less than the **96.0** pounds per hour, combined, maximum allowable emission limit as determined from NAC 445B.22033 and the maximum combined allowable throughput as limited by 3.a of this section.
- (2) NAC 445B.305 – The discharge of **PM₁₀** (particulate matter less than 10 microns in diameter) to the atmosphere from **PF1.004 and PF1.005** will not exceed **0.02** pound per hour, each, or exceed **0.002** ton per year, combined. This limit is less than the **96.0** pounds per hour, combined, maximum allowable emission limit as determined from NAC 445B.22033 and the maximum combined allowable throughput as limited by 3.a of this section.
- (3) SIP 445.721 *Federally Enforceable SIP Requirement* – The opacity from **PF1.004 and PF1.005** each will not equal or exceed 20% for a period or periods aggregating more than 3 minutes in any one hour in accordance with SIP 445.721.
- (4) NAC 445B.22017 – The opacity from **PF1.004 and PF1.005** each will not equal or exceed 20% in accordance with NAC 445B.22017.

3. NAC 445B.3405

Operating Parameters

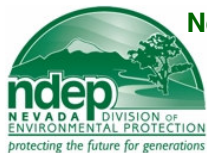
- a. Maximum allowable throughput for **PF1.001** will not exceed **3,750.0** tons of coal per any one-hour period.
- b. Maximum allowable throughput for **PF1.002 through PF1.005**, each, will not exceed **2,200.0** tons of coal per any one-hour period.
- c. Maximum allowable throughput for **System 03** will not exceed **1,085,000** tons of coal per 12-month rolling period.
- d. **PF1.002 through PF1.005** each may operate 8,760 hours per year.

4. NAC 445B.3405

a. Monitoring and Recordkeeping

Upon commencement of operations, *Permittee will:*

- (1) Monitor and record the weight rate of each batch or charge load of coal to **System 03** on a daily basis:
 - (i) Monitor and Record weight of coal unloaded from rail car at **PF1.001**.
 - (ii) Monitor and record weight of coal transferred to **Conveyor 2A through PF1.004 and PF1.005**.
- (2) Monitor and record the hours of operation of **PF1.001 through PF1.005** on a daily basis.
- (3) Conduct and record a weekly visible emission inspection on **PF1.001 through PF1.005** while **System 03** is operating; record the time of the survey and indicate whether any visible emissions were observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test within 24 hours and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.



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Section V. Specific Operating Conditions (continued)

D. Emission Units PF1.006 through PF1.011 – Fugitive Coal Handling Operations, Coal Reclaim.

System 04 Coal Reclaim Operations

PF1.006	Conveyor 2A transfer to Lowering Well/Stockpile
PF1.007	Front Loader transfer to Reclaim Weigh Hopper/Feeder 4A
PF1.008	Front Loader transfer to Reclaim Weigh Hopper/Feeder 4B
PF1.009	Front Loader transfer to Reclaim Weigh Hopper/Feeder 4C
PF1.010	Front Loader transfer to Reclaim Weigh Hopper/Feeder 4D
PF1.011	Weigh Hopper/Feeder 4A, 4B, 4C and/or 4D transfer to Conveyor 6A [enclosed at the top and the sides]

1. NAC 445B.3405

Air Pollution Equipment

- Emissions from **PF1.006** shall be controlled by enclosures, lowering well to stockpile, and water sprays located at **PF1.001 through PF1.005**.
- Emissions from **PF1.007 through PF1.010** are uncontrolled.
- Emissions from **PF1.011** shall be controlled by **enclosures on the sides and the top of the conveyor**.

2. NAC 445B.3405

Emission Limits

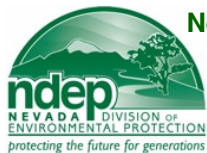
On and after the date of startup of **PF1.006 through PF1.011**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.006 through PF1.011**, the following pollutants in excess of the following specified limits:

a. PF1.006 – Conveyor transfer to Stockpile

- NAC 445B.305 – The discharge of **PM** (particulate matter) to the atmosphere from **PF1.006** will not exceed **0.03** pound per hour, or exceed **0.004** ton per year. This limit is less than the **96.0** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum combined allowable throughput as limited by 3.a of this section.
- NAC 445B.305 – The discharge of **PM₁₀** (particulate matter less than 10 microns in diameter) to the atmosphere from **PF1.006** will not exceed **0.03** pound per hour, or exceed **0.004** ton per year. This limit is less than the **96.0** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum combined allowable throughput as limited by 3.a of this section.
- SIP 445.721 *Federally Enforceable SIP Requirement* – The opacity from **PF1.006** will not equal or exceed 20% for a period or periods aggregating more than 3 minutes in any one hour in accordance with SIP 445.721.
- NAC 445B.22017 – The opacity from **PF1.006** will not equal or exceed 20% in accordance with NAC 445B.22017.

b. PF1.007 through PF1.010 – Front Loader transfer to Weigh Hopper/Feeders

- NAC 445B.305 – The discharge of **PM** (particulate matter) to the atmosphere from **PF1.007 through PF1.010** will not exceed **0.006** pound per hour, each, or exceed **0.004** ton per year, combined. This limit is less than the **74.7** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum combined allowable throughput as limited by 3.a of this section.
- NAC 445B.305 – The discharge of **PM₁₀** (particulate matter less than 10 microns in diameter) to the atmosphere from **PF1.007 through PF1.010** will not exceed **0.006** pound per hour, each, or exceed **0.004** ton per year, combined. This limit is less than the **74.7** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum combined allowable throughput as limited by 3.a of this section.
- SIP 445.721 *Federally Enforceable SIP Requirement* – The opacity from **PF1.007 through PF1.010, each**, will not equal or exceed 20% for a period or periods aggregating more than 3 minutes in any one hour in accordance with SIP 445.721.
- NAC 445B.22017 – The opacity from **PF1.007 through PF1.010, each**, will not equal or exceed 20% in accordance with NAC 445B.22017.



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Section V. Specific Operating Conditions (continued)

D. Emission Units PF1.006 through PF1.010 – Fugitive Coal Handling Operations, Coal Reclaim. (continued)

2. NAC 445B.3405 Emission Limits (continued)

c. **PF1.011** – Weigh Hopper/Feeders transfer to Conveyors

- (1) NAC 445B.305 – The discharge of **PM** (particulate matter) to the atmosphere from **PF1.011** will not exceed **0.000** pound per hour, or exceed **0.000** ton per year. This limit is less than the **77.588** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum combined allowable throughput as limited by 3.a of this section.
- (2) NAC 445B.305 – The discharge of **PM₁₀** (particulate matter less than 10 microns in diameter) to the atmosphere from **PF1.011** will not exceed **0.000** pound per hour, or exceed **0.000** ton per year. This limit is less than the **77.588** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum combined allowable throughput as limited by 3.a of this section.
- (3) SIP 445.721 *Federally Enforceable SIP Requirement* – The opacity from **PF1.011** will not equal or exceed 20% for a period or periods aggregating more than 3 minutes in any one hour in accordance with SIP 445.721.
- (4) NAC 445B.22017 – The opacity from **PF1.011** will not equal or exceed 20% in accordance with NAC 445B.22017.
- (5) NAC 445B.305 – The opacity from **PF1.011** will not equal or exceed 0%.

d. New Source Performance Standards - Subpart Y - Standards of Performance for Coal Preparation Plants (40 CFR Part 60.250) On and after the sixtieth day after achieving the maximum production rate at which **PF1.006** and **PF1.011** will be operated, but not later than 180 days after initial startup, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.006** and **PF1.011** the following pollutants in excess of the following specified limits:

- (1) Emissions that exhibit greater than 20 percent opacity (40 CFR Part 60.252(c))
- (2) The opacity standard set forth in this part shall apply at all times except during periods of startup, shutdown, and malfunction (40 CFR Part 60.11(c))
- (3) At all times, including periods of startup, shutdown, and malfunction, Permittee shall, to the extent practicable, maintain and operate **PF1.006** and **PF1.011** including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions (40 CFR Part 60.11(d))

3. NAC 445B.3405

Operating Parameters

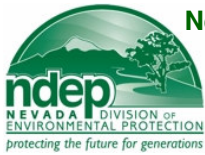
- a. Maximum allowable throughput for **PF1.006** will not exceed **3,750.0** tons of coal per any one-hour period.
- b. Maximum allowable throughput for **PF1.007 through PF1.010** will not exceed **400.0** tons of coal, each, or **800.0** tons of coal, combined, per any one-hour period.
- c. Maximum allowable throughput for **PF1.011** will not exceed **800.0** tons of coal per any one-hour period.
- d. Maximum allowable throughput for **System 04** will not exceed **1,085,000** tons of coal per 12-month rolling period.
- e. **PF1.006 through PF1.010** may operate 8,760 hours per year.

4. NAC 445B.3405

a. Monitoring and Recordkeeping

Upon commencement of operations, **Permittee will:**

- (1) Monitor and record the weight rate of each batch or charge load of coal to **System 04** on a daily basis.
- (2) Monitor and record the hours of operation of **PF1.006 through PF1.010** on a daily basis.
- (3) Conduct and record a weekly visible emission inspection on **PF1.006 through PF1.010** while **System 04** is operating; record the time of the survey and indicate whether any visible emissions were observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test within 24 hours and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0359

Permit No. AP4911-1349

**CLASS I AIR QUALITY OPERATING PERMIT
GENERAL REQUIREMENTS**

Issued to: Newmont Nevada Energy Investment, LLC, as Permittee

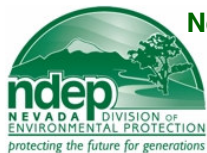
Section V. Specific Operating Conditions (continued)

D. Emission Units PF1.006 through PF1.010 – Fugitive Coal Handling Operations, Coal Reclaim. (continued)

4. NAC 445B.3405 (continued)

b. New Source Performance Standards (NSPS) - Notification and Record Keeping (40 CFR Part 60.7(b))
Permittee, upon the issuance date of this permit shall:

- (1) Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.



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Section V. Specific Operating Conditions (continued)

E. Emission Units S2.006 through S2.009 –Coal Crushing Operations, Baghouse ‘B’ Controlled.

System 05	Coal Crushing Operations, Baghouse ‘B’ Controlled
S2.006	Conveyor 6A transfer to 800 TPH Crusher
S2.007	Conveyor 6A transfer to Crushing Tower Diverter Gate
S2.008	800 TPH Crusher transfer to Conveyor 8A
S2.009	Crushing Tower Diverter Gate Transfer to Conveyor 8A

1. NAC 445B.3405

Air Pollution Equipment

Emissions from **S2.006 through S2.009** shall be ducted to a control system consisting of a **Baghouse (‘B’)** with 100% capture and a maximum volume flow rate of **6,250** actual standard cubic feet per minute (acfm) or **5100 dry standard cubic feet per minute (dscfm)**. The volumetric flow rate may be determined by utilizing Method 2 - *Determination of Stack Gas Velocity and Volumetric Flow Rate* as referenced in 40 CFR Part 60, Appendix A.

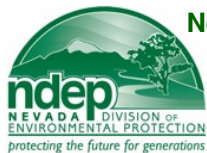
Stack Height: 11.2 ft
Stack Dimensions: 15.375 in by 19 in
Stack Velocity: 51.35 ft/sec
Stack Temperature: Ambient
Stack Orientation: Vertical

2. NAC 445B.3405

Emission Limits

On and after the date of startup of **S2.006 through S2.009**, the Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **Baghouse ‘B’**, the following pollutants in excess of the following specified limits:

- NAC 445B.305 – The discharge of **PM₁₀** (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.44** pound per hour, or exceed **1.95** tons per year. This limit is less than the **74.7** pounds per hour combined maximum allowable emission limit as determined from NAC 445B.22033 and the maximum combined allowable throughput as limited by 3.a of this section.
- NAC 445B.305 – The discharge of **PM** (particulate matter) to the atmosphere will not exceed **0.44** pound per hour. This limit is less than the **74.7** pounds per hour maximum allowable emission limit as determined from SIP 445.732 and the maximum allowable throughput as limited by 3.a of this section.
- NAC 445B.305 *BACT Emission Limit* – The discharge of **PM₁₀** to the atmosphere from the stack of **Baghouse ‘B’** will not exceed **0.01** grain per dry standard cubic foot.
- SIP 445.721 (*Federally Enforceable SIP Requirement*) – The opacity from the **Baghouse ‘B’** stack discharge will not equal or exceed 20% for a period or periods aggregating more than 3 minutes in any one hour in accordance with SIP 445.721.
- NAC 445B.22017 – The opacity from the **Baghouse ‘B’** stack discharge will not equal or exceed 20% in accordance with NAC 445B.22017.



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Section V. Specific Operating Conditions (continued)

E. Emission Units S2.006 through S2.009 –Coal Crushing Operations, Baghouse ‘B’ Controlled. (continued)

2. NAC 445B.3405 Emission Limits (continued)

f. New Source Performance Standards - Subpart Y - Standards of Performance for Coal Preparation Plants (40 CFR Part 60.250) On and after the sixtieth day after achieving the maximum production rate at which **S2.006 through S2.009** will be operated, but not later than 180 days after initial startup, Permittee will not discharge or cause the discharge into the atmosphere from **Baghouse ‘B’** the following pollutants in excess of the following specified limits:

- (1) Emissions that exhibit greater than 20 percent opacity (40 CFR Part 60.252(c))
- (2) The opacity standard set forth in this part shall apply at all times except during periods of startup, shutdown, and malfunction (40 CFR Part 60.11(c))
- (3) At all times, including periods of startup, shutdown, and malfunction, Permittee shall, to the extent practicable, maintain and operate **S2.006 through S2.009** including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions (40 CFR Part 60.11(d))

3. NAC 445B.3405

Operating Parameters

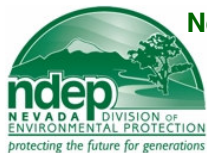
- a. Maximum allowable throughput for **S2.006 through S2.009** will not exceed **800.0** tons of coal per any one-hour period.
- b. **S2.006 through S2.009** may operate **8,760** hours per calendar year.

4. NAC 445B.3405

a. Monitoring, Testing and Record keeping

Upon commencement of operations, *Permittee will:*

- (1) Monitor and record the throughput rate of coal to **S2.006 through S2.009** on a daily basis.
 - (2) Monitor and record the hours of operation of **S2.006 through S2.009** on a daily basis.
 - (3) Conduct and record a weekly visible emission inspection on the exhaust stack of **Baghouse ‘B’** while **System 05** is operating; record the time of the survey and indicate whether any visible emissions were observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test within 24 hours and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
 - (4) Monitor and record that the maintenance and operation of **Baghouse ‘B’** is in accordance with the manufacturer’s operation and maintenance guidelines, on a weekly basis. Monitor and record on a weekly basis the differential pressure drop across the **Baghouse ‘B’**. Weekly records must show that observations were made, and records of any corrective actions taken.
 - (5) Conduct and record a Method 5 and Method 201 or 201A (or an equivalent method as approved by the Director) performance test for PM and PM₁₀ on the exhaust stack of **Baghouse ‘B’** consisting of three valid runs within 60 days, but no later than 180 days, from the date of initial startup. The Method 201 or 201A emissions tests must be conducted in accordance with 40 CFR Part 51, Appendix M, Method 201 or 201A. The Method 5 emissions test must be conducted in accordance with 40 CFR Part 60, Appendix A, Method 5.
- b. New Source Performance Standards (NSPS) - Notification and Record Keeping (40 CFR Part 60.7(b))
Permittee, upon the issuance date of this permit shall:
- (1) Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.



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Section V. Specific Operating Conditions (continued)

F. Emission Units S2.010 through S2.012 –Coal Tripper Deck, Baghouse ‘C’ Controlled.

System 06 Coal Tripper Deck, Baghouse ‘C’ Controlled

S2.010 Conveyor 8A transfer to Tripper Conveyor 9

S2.011 Tripper Conveyor 9 transfer to Tripper

S2.012 Tripper transfer to Coal Silo 1, 2, or 3

1. NAC 445B.3405

Air Pollution Equipment

Emissions from **S2.010 through S2.012** shall be ducted to a control system consisting of a **Baghouse (‘C’)** with 100% capture and a maximum volume flow rate of **16,775** dry standard cubic feet per minute (dscfm) The volumetric flow rate may be determined by utilizing Method 2 - *Determination of Stack Gas Velocity and Volumetric Flow Rate* as referenced in 40 CFR Part 60, Appendix A.

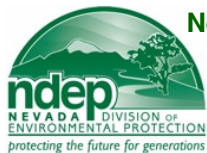
Stack Height: 218.0 ft
Stack Dimensions: 25 in by 20.125 in
Stack Velocity: 95.9 ft/sec
Stack Temperature: Ambient
Stack Orientation: Vertical

2. NAC 445B.3405

Emission Limits

On and after the date of startup of **S2.010 through S2.012**, the **Permittee** will not discharge or cause the discharge into the atmosphere from the exhaust stack of **Baghouse ‘C’**, the following pollutants in excess of the following specified limits:

- a. NAC 445B.305 – The discharge of **PM₁₀** (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **1.44** pounds per hour. This limit is less than the **74.7** pounds per hour combined maximum allowable emission limit as determined from NAC 445B.22033 and the maximum combined allowable throughput as limited by 3.a of this section.
- b. NAC 445B.305 – The discharge of **PM** (particulate matter) to the atmosphere will not exceed **1.44** pound per hour. This limit is less than the **74.7** pounds per hour maximum allowable emission limit as determined from SIP 445.732 and the maximum allowable throughput as limited by 3.a of this section.
- c. NAC 445B.305 **BACT Emission Limit** – The discharge of **PM₁₀** to the atmosphere from the stack of **Baghouse ‘C’** will not exceed **0.01** grain per dry standard cubic foot.
- d. SIP 445.721 (*Federally Enforceable SIP Requirement*) – The opacity from the **Baghouse ‘C’** stack discharge will not equal or exceed 20% for a period or periods aggregating more than 3 minutes in any one hour in accordance with SIP 445.721.
- e. NAC 445B.22017 – The opacity from the **Baghouse ‘C’** stack discharge will not equal or exceed 20% in accordance with NAC 445B.22017.



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Section V. Specific Operating Conditions (continued)

F. Emission Units S2.010 through S2.012 –Coal Tripper Deck, Baghouse ‘C’ Controlled. (continued)

2. NAC 445B.3405 Emission Limits (continued)

f. New Source Performance Standards - Subpart Y - Standards of Performance for Coal Preparation Plants (40 CFR Part 60.250) On and after the sixtieth day after achieving the maximum production rate at which **S2.010 through S2.012** will be operated, but not later than 180 days after initial startup, Permittee will not discharge or cause the discharge into the atmosphere from **Baghouse ‘C’** the following pollutants in excess of the following specified limits:

- (1) Emissions that exhibit greater than 20 percent opacity (40 CFR Part 60.252(c))
- (2) The opacity standard set forth in this part shall apply at all times except during periods of startup, shutdown, and malfunction (40 CFR Part 60.11(c))
- (3) At all times, including periods of startup, shutdown, and malfunction, Permittee shall, to the extent practicable, maintain and operate **S2.010 through S2.012** including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions (40 CFR Part 60.11(d))

3. NAC 445B.3405

Operating Parameters

- a. Maximum allowable throughput for **S2.010 through S2.012** will not exceed **800.0** tons of coal per any one-hour period.
- b. **S2.010 through S2.012** may operate **8,760** hours per calendar year.

4. NAC 445B.3405

a. Monitoring, Testing and Record keeping

Upon commencement of operations, *Permittee will:*

- (1) Monitor and record the throughput rate of coal to **S2.010 through S2.012** on a daily basis.
 - (2) Monitor and record the hours of operation of **S2.010 through S2.012** on a daily basis.
 - (3) Conduct and record a weekly visible emission inspection on the exhaust stack of **Baghouse ‘C’** while **System 06** is operating; record the time of the survey and indicate whether any visible emissions were observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test within 24 hours and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
 - (4) Monitor and record that the maintenance and operation of **Baghouse ‘C’** is in accordance with the manufacturer’s operation and maintenance guidelines, on a weekly basis. Monitor and record on a weekly basis the differential pressure drop across the **Baghouse ‘C’**. Weekly records must show that observations were made, and records of any corrective actions taken.
 - (5) Conduct and record a Method 5 and Method 201 or 201A (or an equivalent method as approved by the Director) performance test for PM and PM₁₀ on the exhaust stack of **Baghouse ‘C’** consisting of three valid runs within 60 days, but no later than 180 days, from the date of initial startup. The Method 201 or 201A emissions tests must be conducted in accordance with 40 CFR Part 51, Appendix M, Method 201 or 201A. The Method 5 emissions test must be conducted in accordance with 40 CFR Part 60, Appendix A, Method 5.
- b. New Source Performance Standards (NSPS) - Notification and Record Keeping (40 CFR Part 60.7(b))
Permittee, upon the issuance date of this permit shall:
- (1) Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.



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Section V. Specific Operating Conditions (continued)

G. Emission Units S2.013 and PF1.012 – Fly Ash Handling Silo.

System 07 Fly Ash Handling Silo

S2.013 Fly Ash/Flue Gas Desulfurization (FGD) Waste Handling Silo Loading

PF1.012 Fly Ash/FGD Waste Handling Silo Discharge to Truck [Complete Wet Process]

1. NAC 445B.3405

Air Pollution Control Equipment

Emissions from **S2.013** shall be ducted to a control system consisting of a **Bin Vent Filter** with a 100% capture rate.

Emissions from **PF1.012** shall be controlled by Fly Ash/FGD waste being mixed with water until completely wet.

2. NAC 445B.3405

Emission Limits

a. On and after the date of startup of **S2.013**, the **Permittee** will not discharge or cause the discharge into the atmosphere from the exhaust stack of the **Fly Ash Bin Vent Filter**, the following pollutants in excess of the following specified limits:

(1) NAC 445B.305 – The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.19** pound per hour or more than **0.84** tons per year. This limit is less than the **66.314** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited by paragraph G.3.a of this section.

(2) NAC 445B.305 – The discharge of PM (particulate matter) to the atmosphere will not exceed **0.19** pound per hour or more than **0.84** tons per year. This limit is less than the **66.314** pounds per hour maximum allowable emission limit as determined from SIP 445.732 and the maximum allowable throughput as limited by paragraph G.3.a of this section.

(3) NAC 445B.305 **BACT Emission Limit** – The discharge of PM₁₀ to the atmosphere from the stack of the **Fly Ash Bin Vent Filter** will not exceed **0.02** grain per dry standard cubic foot.

(4) SIP 445.721 (**Federally Enforceable SIP Requirement**) – The opacity from the **Fly Ash Bin Vent Filter** stack discharge will not equal or exceed **20%** for a period or periods aggregating more than 3 minutes in any one hour in accordance with SIP 445.721.

(5) NAC 445B.22017 – The opacity from the **Fly Ash Bin Vent Filter** stack discharge will not equal or exceed 20% in accordance with NAC 445B.22017.

b. On and after the date of startup of **PF1.012**, the **Permittee** will not discharge or cause the discharge into the atmosphere from **PF1.012**, the following pollutants in excess of the following specified limits:

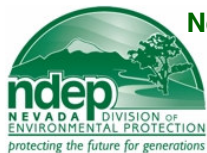
(1) NAC 445B.305 – The discharge of PM₁₀ to the atmosphere will not exceed **0.000** pound per hour or more than **0.000** tons per year. This limit is less than the **66.314** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited by paragraph G.3.b. of this section.

(2) NAC 445B.305 – The discharge of PM to the atmosphere will not exceed **0.000** pound per hour or more than **0.000** tons per year. This limit is less than the **66.314** pounds per hour maximum allowable emission limit as determined from SIP 445.732 and the maximum allowable throughput as limited by paragraph G.3.b of this section.

(3) SIP 445.721 (**Federally Enforceable SIP Requirement**) – The opacity from the **Fly Ash/FGD Silo** discharge will not equal or exceed 20% for a period or periods aggregating more than 3 minutes in any one hour in accordance with SIP 445.721.

(4) NAC 445B.22017 – The opacity from the **Fly Ash/FGD Silo** discharge will not equal or exceed 20% in accordance with NAC 445B.22017.

(5) NAC 445B.305 – The opacity from the **Fly Ash/FGD Silo** discharge will not equal or exceed 0.0%.



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Section V. Specific Operating Conditions (continued)

G. Emission Units S2.013 and PF1.012 – Fly Ash Handling Silo. (continued)

3. NAC 445B.3405

Operating Parameters

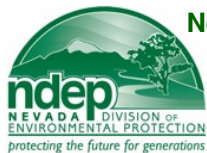
- a. The maximum allowable throughput for **S2.013** will not exceed **58.2** tons of Fly Ash/FGD Waste per any one-hour period.
- b. The maximum allowable throughput for **PF1.012** will not exceed **200.0** tons of Fly Ash/FGD Waste per any one-hour period.
- c. **S2.013 and PF1.012** may operate **8,760** hours per calendar year, each.
- d. Total annual throughput for **S2.013 and PF1.012** will not exceed **109,000.0** tons of Fly Ash/FGD Waste per calendar year, each.

4. NAC 445B.3405

a. Monitoring, Recordkeeping and Compliance

Permittee will:

- (1) Monitor and record the amount of Fly Ash/FGD Waste loaded into **S2.013** each day loading occurs.
- (2) Monitor and record the amount of Fly Ash/FGD Waste discharged from **PF1.012** each day discharge occurs.
- (3) Conduct a weekly inspection of the **Fly Ash Bin Vent Filter** on **S2.013** in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the bags and housing) and any corrective actions taken.
- (4) Conduct and record a visible emission inspection once per month on the exhaust points of **S2.013 and PF1.012** each; record the time of the survey and indicate whether any visible emissions were observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test within 24 hours and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.



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Section V. Specific Operating Conditions (continued)

H. Emission Units PF1.013 and PF1.014 – Bottom Ash Stackout.

System 08 Bottom Ash Stackout

PF1.013 Bottom Ash Transfer to Containment Area [Complete Wet Process]

PF1.014 Front End Loader transfer to Haul Truck

1. NAC 445B.3405

Air Pollution Equipment

- a. Emissions from **PF1.013** shall be controlled by the Bottom Ash being saturated by water.
- b. Emissions from **PF1.014** shall be controlled by water sprays.

2. NAC 445B.3405

Emission Limits

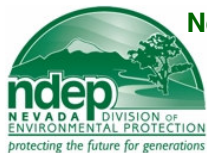
On and after the date of startup of **PF1.013** and **PF1.014**, Permittee will not discharge or cause the discharge into the atmosphere from **PF1.013** and **PF1.014**, the following pollutants in excess of the following specified limits:

a. **Bottom Ash Transfer to Containment Area**

- (1) NAC 445B.305 – The discharge of **PM** (particulate matter) to the atmosphere from **PF1.013** will not exceed **0.01** pound per hour, or exceed **0.002** ton per year. This limit is less than the **34.085** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum combined allowable throughput as limited by 3.a of this section.
- (2) NAC 445B.305 – The discharge of **PM₁₀** (particulate matter less than 10 microns in diameter) to the atmosphere from **PF1.013** will not exceed **0.01** pound per hour, or exceed **0.002** ton per year. This limit is less than the **34.085** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum combined allowable throughput as limited by 3.a of this section.
- (3) SIP 445.721 *Federally Enforceable SIP Requirement* – The opacity from **PF1.013** will not equal or exceed 20% for a period or periods aggregating more than 3 minutes in any one hour in accordance with SIP 445.721.
- (4) NAC 445B.22017 – The opacity from **PF1.013** will not equal or exceed 20% in accordance with NAC 445B.22017.

b. **Front Loader transfer to Haul Truck**

- (1) NAC 445B.305 – The discharge of **PM** (particulate matter) to the atmosphere from **PF1.014** will not exceed **0.01** pound per hour, or exceed **0.002** ton per year. This limit is less than the **66.314** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum combined allowable throughput as limited by 3.a of this section.
- (2) NAC 445B.305 – The discharge of **PM₁₀** (particulate matter less than 10 microns in diameter) to the atmosphere from **PF1.014** will not exceed **0.01** pound per hour, or exceed **0.002** ton per year. This limit is less than the **66.314** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum combined allowable throughput as limited by 3.a of this section.
- (3) SIP 445.721 *Federally Enforceable SIP Requirement* – The opacity from **PF1.014** will not equal or exceed 20% for a period or periods aggregating more than 3 minutes in any one hour in accordance with SIP 445.721.
- (4) NAC 445B.22017 – The opacity from **PF1.014** will not equal or exceed 20% in accordance with NAC 445B.22017.



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Section V. Specific Operating Conditions (continued)

H. Emission Units PF1.013 and PF1.014 – Bottom Ash Stackout. (continued)

3. NAC 445B.3405

Operating Parameters

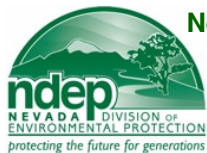
- a. Maximum allowable throughput for **PF1.013** will not exceed **36.0** tons of Bottom Ash per any one-hour period.
- b. Maximum allowable throughput for **PF1.014** will not exceed **400.0** tons of Bottom Ash per any one hour period.
- b. Maximum allowable throughput for **System 08** will not exceed **109,000.0** tons of Bottom Ash per 12-month rolling period.
- d. **PF1.013 and PF1.014** may operate 8,760 hours per year.

4. NAC 445B.3405

a. Monitoring and Recordkeeping

Upon commencement of operations, *Permittee will:*

- (1) Monitor and record the weight transfer rate of Bottom Ash for **PF1.013 and PF1.014**, each, on a daily basis.
- (2) Monitor and record the hours of operation of **PF1.013 and PF1.014** on a daily basis.
- (3) Conduct and record a weekly visible emission inspection on **PF1.013 and PF1.014** while **System 08** is operating; record the time of the survey and indicate whether any visible emissions were observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test within 24 hours and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.



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Section V. Specific Operating Conditions (continued)

I. Emission Units S2.014 and S2.015 – Recycle Ash Handling Silo and Recycle Ash and Flyash Vacuum Blower.

System 09 Recycle Ash Handling Silo

S2.014 Recycle Ash Silo Loading

S2.015 Recycle Ash/Flyash Vacuum Blower Baghouse

1. NAC 445B.3405

Air Pollution Control Equipment

Emissions from **S2.014** shall be ducted to a control system consisting of a **Bin Vent Filter** with a 100% capture rate.

Emissions from unloading the **Recycle Ash Silo** are controlled by the main boiler, **S2.001**.

2. NAC 445B.3405

Emission Limits

a. On and after the date of startup of **S2.014**, the **Permittee** will not discharge or cause the discharge into the atmosphere from the exhaust stack of the **Recycle Ash 1A Bin Vent Filter**, the following pollutants in excess of the following specified limits:

(1) NAC 445B.305 – The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.06** pound per hour or more than **0.24** tons per year. This limit is less than the **46.3** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited by paragraph I.3.a of this section.

(2) NAC 445B.305 – The discharge of PM (particulate matter) to the atmosphere will not exceed **0.06** pound per hour or more than **0.24** tons per year. This limit is less than the **46.3** pounds per hour maximum allowable emission limit as determined from SIP 445.732 and the maximum allowable throughput as limited by paragraph I.3.a of this section.

(3) NAC 445B.305 BACT Emission Limit – The discharge of PM₁₀ to the atmosphere from the stack of the **Recycle Ash Bin Vent Filter** will not exceed **0.02** grain per dry standard cubic foot.

(4) SIP 445.721 (Federally Enforceable SIP Requirement) – The opacity from the **Recycle Ash Bin Vent Filter** stack discharge will not equal or exceed **20%** for a period or periods aggregating more than 3 minutes in any one hour in accordance with SIP 445.721.

(5) NAC 445B.22017 – The opacity from the **Recycle Ash Bin Vent Filter** stack discharge will not equal or exceed **20%** in accordance with NAC 445B.22017.

b. On and after the date of startup of **S2.015**, the **Permittee** will not discharge or cause the discharge into the atmosphere from the exhaust stack of the **Recycle Ash/Flyash Vacuum Blower Baghouse**, the following pollutants in excess of the following specified limits:

(1) NAC 445B.305 – The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.27** pound per hour or more than **1.18** tons per year. This limit is less than the **46.3** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited by paragraph I.3.a of this section.

(2) NAC 445B.305 – The discharge of PM (particulate matter) to the atmosphere will not exceed **0.27** pound per hour or more than **1.18** tons per year. This limit is less than the **46.3** pounds per hour maximum allowable emission limit as determined from SIP 445.732 and the maximum allowable throughput as limited by paragraph I.3.a of this section.



BUREAU OF AIR POLLUTION CONTROL

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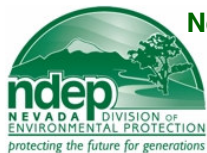
Permit No. AP4911-1349

**CLASS I AIR QUALITY OPERATING PERMIT
GENERAL REQUIREMENTS**

Issued to: Newmont Nevada Energy Investment, LLC, as Permittee

Section V. Specific Operating Conditions (continued)

- I. Emission Units S2.014 and S2.015 – Recycle Ash Handling Silo and Recycle Ash and Flyash Vacuum Blower.** (continued)
2. NAC 445B.3405 Emission Limits (continued)
 - b. On and after the date of startup of **S2.015**, the Permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of the **Recycle Ash/Flyash Vacuum Blower Baghouse**, the following pollutants in excess of the following specified limits: (continued)
 - (3) NAC 445B.305 BACT Emission Limit – The discharge of **PM₁₀** to the atmosphere from the stack of the **Recycle Ash/Flyash Vacuum Blower Baghouse** will not exceed **0.02** grain per dry standard cubic foot.
 - (4) SIP 445.721 (Federally Enforceable SIP Requirement) – The opacity from the **Recycle Ash/Flyash Vacuum Blower Baghouse** stack discharge will not equal or exceed **20%** for a period or periods aggregating more than 3 minutes in any one hour in accordance with SIP 445.721.
 - (5) NAC 445B.22017 – The opacity from the **Recycle Ash/Flyash Vacuum Blower Baghouse** stack discharge will not equal or exceed **20%** in accordance with NAC 445B.22017.
 3. NAC 445B.3405
Operating Parameters
 - a. The maximum allowable loading rate for **S2.014** will not exceed **30.0** tons of Recycle Ash per any one-hour period.
 - b. The maximum allowable unloading rate for **S2.014** will not exceed **25.0** tons of Recycle Ash per any one-hour period.
 - c. **S2.014 and S2.015**, each may operate **8,760** hours per calendar year, each.
 - d. Total annual throughput for **S2.014** will not exceed **219,000.0** tons of Recycle Ash per calendar year.
 4. NAC 445B.3405
 - a. Monitoring, Recordkeeping and Compliance
Permittee will:
 - (1) Monitor and record the amount of Recycle Ash loaded into **S2.014** each day loading occurs.
 - (2) Monitor and record the amount of Recycle Ash discharged from **S2.014** each day discharge occurs.
 - (3) Conduct a weekly inspection of the **Recycle Ash Bin Vent Filter and the Recycle Ash/Flyash Vacuum Blower Baghouse** on **S2.014 and S2.015** in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the bags and housing) and any corrective actions taken.
 - (4) Conduct and record a visible emission inspection once per month on the exhaust points of **S2.014**; record the time of the survey and indicate whether any visible emissions were observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test within 24 hours and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.



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Section V. Specific Operating Conditions (continued)

J. Emission Units S2.016 – Lime Handling Silo.

System 10 Lime Handling Silo

S2.016 Lime Silo 1A Loading

1. NAC 445B.3405

Air Pollution Control Equipment

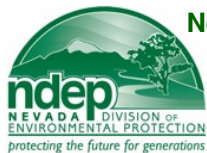
Emissions from **S2.016** shall be ducted to a control system consisting of a **Bin Vent Filter** with a 100% capture rate. Emissions from unloading the **Lime Silo** is controlled by the main boiler, **S2.001**.

2. NAC 445B.3405

Emission Limits

a. On and after the date of startup of **S2.016**, the **Permittee** will not discharge or cause the discharge into the atmosphere from the exhaust stack of the **Lime Bin Vent Filter**, the following pollutants in excess of the following specified limits:

- (1) NAC 445B.305 – The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.20** pound per hour or more than **0.87** ton per year. This limit is less than the **35.4** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited by paragraph J.3.a of this section.
- (2) NAC 445B.305 – The discharge of PM (particulate matter) to the atmosphere will not exceed **0.20** pound per hour or more than **0.87** ton per year. This limit is less than the **35.4** pounds per hour maximum allowable emission limit as determined from SIP 445.732 and the maximum allowable throughput as limited by paragraph J.3.a of this section.
- (3) NAC 445B.305 BACT Emission Limit – The discharge of PM_{10} to the atmosphere from the stack of the **Lime Bin Vent Filter** will not exceed **0.02** grain per dry standard cubic foot.
- (4) SIP 445.721 (Federally Enforceable SIP Requirement) – The opacity from the **Lime Bin Vent Filter** stack discharge will not equal or exceed **20%** for a period or periods aggregating more than 3 minutes in any one hour in accordance with SIP 445.721.
- (5) NAC 445B.22017 – The opacity from the **Lime Bin Vent Filter** stack discharge will not equal or exceed **20%** in accordance with NAC 445B.22017.



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Section V. Specific Operating Conditions (continued)

J. Emission Units S2.016 – Lime Handling Silo. (continued)

3. NAC 445B.3405

Operating Parameters

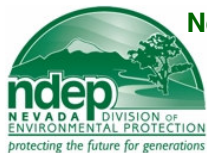
- a. The maximum allowable loading rate for **S2.016**, each will not exceed **25.0** tons of Lime per any one-hour period.
- b. The maximum allowable unloading rate for **S2.016**, each will not exceed **2.5** tons of Lime per any one-hour period.
- c. **S2.016** may operate **8,760** hours per calendar year.
- d. Total annual throughput for **S2.016** will not exceed **13,140.0** tons of Lime per calendar year.

4. NAC 445B.3405

a. Monitoring, Recordkeeping and Compliance

Permittee will:

- (1) Monitor and record the amount of Lime loaded into **S2.016** each day loading occurs.
- (2) Monitor and record the amount of Lime discharged from **S2.016** each day discharge occurs.
- (3) Conduct a weekly inspection of the **Lime Bin Vent Filters** on **S2.016** in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the bags and housing) and any corrective actions taken.
- (4) Conduct and record a visible emission inspection once per month on the exhaust points of **S2.016**; record the time of the survey and indicate whether any visible emissions were observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test within 24 hours and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.



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Section V. Specific Operating Conditions (continued)

K. Emission Units S2.017 – Carbon Handling Silo.

System 11 Activated Carbon Handling Silo

S2.017 Activated Carbon Silo Loading

1. NAC 445B.3405

Air Pollution Control Equipment

Emissions from **S2.017** shall be ducted to a control system consisting of a **Bin Vent Filter** with a 100% capture rate. Emissions from unloading the **Carbon Silo** are controlled by the main boiler, **S2.001**.

2. NAC 445B.3405

Emission Limits

a. On and after the date of startup of **S2.017**, the **Permittee** will not discharge or cause the discharge into the atmosphere from the exhaust stack of the **Carbon Bin Vent Filter**, the following pollutants in excess of the following specified limits:

(1) NAC 445B.305 – The discharge of **PM₁₀** (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.05** pound per hour or more than **0.23** ton per year. This limit is less than the **19.2** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited by paragraph K.3.a of this section.

(2) NAC 445B.305 – The discharge of **PM** (particulate matter) to the atmosphere will not exceed **0.05** pound per hour or more than **0.23** ton per year. This limit is less than the **19.2** pounds per hour maximum allowable emission limit as determined from SIP 445.732 and the maximum allowable throughput as limited by paragraph K.3.a of this section.

(3) NAC 445B.305 BACT Emission Limit – The discharge of **PM₁₀** to the atmosphere from the stack of the **Carbon Bin Vent Filter** will not exceed **0.02** grain per dry standard cubic foot.

(4) SIP 445.721 (Federally Enforceable SIP Requirement) – The opacity from the **Carbon Bin Vent Filter** stack discharge will not equal or exceed **20%** for a period or periods aggregating more than 3 minutes in any one hour in accordance with SIP 445.721.

(5) NAC 445B.22017 – The opacity from the **Carbon Bin Vent Filter** stack discharge will not equal or exceed **20%** in accordance with NAC 445B.22017.

3. NAC 445B.3405

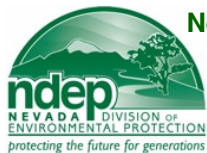
Operating Parameters

a. The maximum allowable loading rate for **S2.017** will not exceed **10.0** tons of Activated Carbon per any one-hour period.

b. The maximum allowable unloading rate for **S2.017** will not exceed **0.14** tons of Activated Carbon per any one-hour period.

c. **S2.017** may operate **8,760** hours per calendar year.

d. Total annual throughput for **S2.017** will not exceed **1,533.0** tons of Activated Carbon per calendar year.



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Section V. Specific Operating Conditions (continued)

K. Emission Units S2.017 – Carbon Handling Silo. (continued)

4. NAC 445B.3405

a. Monitoring, Recordkeeping and Compliance

Permittee will:

- (1) Monitor and record the amount of Activated Carbon loaded into **S2.017** each day loading occurs.
- (2) Monitor and record the amount of Activated Carbon discharged from **S2.017** each day discharge occurs.
- (3) Conduct a weekly inspection of the **Carbon Bin Vent Filter** on **S2.017** in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the bags and housing) and any corrective actions taken.
- (4) Conduct and record a visible emission inspection once per month on the exhaust point of **S2.017**; record the time of the survey and indicate whether any visible emissions were observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test within 24 hours and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.



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Section V. Specific Operating Conditions (continued)

L. Emission Unit PF1.015 – Ash Disposal.

System 12 Ash Disposal

PF1.015 Fly Ash/Bottom Ash Haul Truck transfer to Waste Disposal Site

1. NAC 445B.3405

Air Pollution Equipment

Emissions from **PF1.015** shall be controlled by water sprays.

2. NAC 445B.3405

Emission Limits

On and after the date of startup of **PF1.015**, the *Permittee* will not discharge or cause the discharge into the atmosphere from **PF1.015**, the following pollutants in excess of the following specified limits:

a. Fly Ash/Bottom Ash Transfer to Waste Disposal Site

- (1) NAC 445B.305 – The discharge of **PM** (particulate matter) to the atmosphere from **PF1.015** will not exceed **0.026** pound per hour, or exceed **0.002** ton per year. This limit is less than the **50.003** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum combined allowable throughput as limited by 3.a of this section.
- (2) NAC 445B.305 – The discharge of **PM₁₀** (particulate matter less than 10 microns in diameter) to the atmosphere from **PF1.015** will not exceed **0.026** pound per hour, or exceed **0.002** ton per year. This limit is less than the **50.003** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum combined allowable throughput as limited by 3.a of this section.
- (3) SIP 445.721 *Federally Enforceable SIP Requirement* – The opacity from **PF1.015** will not equal or exceed 20% for a period or periods aggregating more than 3 minutes in any one hour in accordance with SIP 445.721.
- (4) NAC 445B.22017 – The opacity from **PF1.015** will not equal or exceed 20% in accordance with NAC 445B.22017.

3. NAC 445B.3405

Operating Parameters

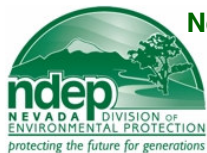
- a. Maximum allowable dump rate for **PF1.015** will not exceed **88.0** tons of Fly Ash/Bottom Ash per any one-hour period.
- b. Maximum allowable dump rate for **PF1.015** will not exceed **109,000.0** tons of Fly Ash/Bottom Ash per 12-month rolling period.
- c. **PF1.015** may operate 8,760 hours per year.

4. NAC 445B.3405

a. Monitoring and Recordkeeping

Upon commencement of operations, the *Permittee* will:

- (1) Monitor and record the weight transfer rate of Fly Ash/Bottom Ash for **PF1.015** on a daily basis.
- (2) Monitor and record the hours of operation of **PF1.015** on a daily basis.
- (3) Conduct and record a weekly visible emission inspection on **PF1.015** while **System 12** is operating; record the time of the survey and indicate whether any visible emissions were observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test within 24 hours and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.



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Section V. Specific Operating Conditions (continued)

M. Emission Unit S2.018 – Cooling Tower

System 13 Cooling Tower

S2.018 Seven Cell Cooling Tower, Model: Marley Class FT-400, Serial# TBD, 98,320 gallon/min Circulating Water Flow Rate

1. NAC 445B.3405

Air Pollution Equipment

Emissions from **S2.018** will be controlled by drift eliminators.

Stack Height: 51 ft
Stack Diameter: 30 ft
Stack Velocity: 32 ft/sec
Stack Temperature: Ambient
Gas Volume Flow rate: 11,071,326 ACFM

2. NAC 445B.3405

Emission Limits

a. On and after the date of startup of **S2.018**, the Permittee will not discharge or cause the discharge into the atmosphere from the cooling tower stacks of **S2.018** the following pollutants in excess of the following specified limits:

(1) NAC 445B.305 – The discharge of **PM₁₀** (particulate matter less than 10 microns in diameter) to the atmosphere from **S2.018** will not exceed **1.48** pounds per hour. This limit is less than the **126.92** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum combined allowable throughput as limited by 3.a of this section.

(2) SIP 445.732 Federally Enforceable SIP – The discharge of PM (particulate matter) to the atmosphere from **S2.018** will not exceed **126.92** pounds per hour.

(3) NAC 445B.22017 – The opacity from of **S2.018** will not equal or exceed 20%. The opacity must be determined as set forth in 445B.22017.1(a) or (b).

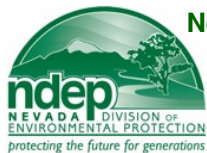
(4) SIP 445.721 Federally Enforceable SIP - The opacity from **S2.018** will not equal or exceed 20% for a period or periods aggregating more than 3 minutes in any one hour.

(5) NAC 445B.305 BACT Emission Limit – The discharge of drift from **S2.018** will not exceed **0.0005** percent of circulating cooling water flow rate.

3. NAC 445B.3405

Operating Parameters

- The maximum circulating water flow rate for **S2.018** will not exceed **98,320** gallons per minute (**24,160** tons per hour).
- The maximum Total Dissolved Solids (TDS) content for **S2.018** will not exceed **6,000** milligrams per liter (**6,000** ppmw).
- The use of chromium-based water treatment chemicals is prohibited.
- S2.018** may operate 8,760 hours per year.



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Section V. Specific Operating Conditions (continued)

M. Emission Unit S2.018 – Cooling Tower (continued)

4. NAC 445B.3405

Monitoring, Record keeping and Compliance

The Permittee will maintain a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **S2.018** are operated:

a. Monitoring

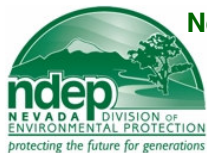
The Permittee, upon the issuance date of this operating permit will:

- (1) Sample the cooling tower water from **S2.018** on a calendar quarterly basis for the TDS concentration in parts per million (ppm). The TDS will be determined using EPA Method 160.1 DNS.
- (2) Inspect and record in a contemporaneous log the maintenance and operation of the drift eliminators in S2.021 in accord with manufacturer's guidelines on an annual basis.

b. Recordkeeping

The Permittee will maintain a contemporaneous log containing at a minimum, the following recordkeeping for each day, or part of a day that **S2.018** are operating under this operating scenario:

- (1) The TDS value of the circulating water of **S2.018** on a calendar quarterly basis. The TDS value will be based on the sampling required in M.4.a. of this section.
- (2) The volume flow rate of the circulating water of **S2.018** on an hourly basis.
- (3) The total hourly quantities of water circulated for each hour of each day **S2.018** operates.
- (4) The total daily hours of operation of **S2.018** for the corresponding date.
- (5) Maintain manufacturer's guidelines for maintenance and inspection of the drift eliminators on site. Maintain annual inspection records including records of observations and any corrective actions taken.



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Section V. Specific Operating Conditions (continued)

N. Emission Units S2.019 and S2.020 – Fuel Storage

System 14 Fuel Storage

S2.019 1,504,000 Gallon No. 2 Fuel Oil Storage Tank

S2.020 50,000 Gallon No. 2 Fuel Oil Storage Tank

1. NAC 445B.3405

Air Pollution Equipment

Control system consisting of submerged fill.

S2.019 Tank Dimensions

Tank Height: 40.0 ft

Tank Diameter: 80.0 ft

S2.020 Tank Dimensions

Tank Height: 24.0 ft

Tank Diameter: 20.0 ft

2. NAC 445B.3405

Emission Limits

On and after the date of startup of **S2.019 and S2.020**, the **Permittee** will not discharge or cause the discharge into the atmosphere from **S2.019 and S2.020**, the following pollutants in excess of the following specified limits:

a. NAC 445B.305

(1) The discharge of **VOC** to the atmosphere from **S2.019** will not exceed **1,188.0** pounds per 12-month rolling period.

(2) The discharge of **VOC** to the atmosphere from **S2.020** will not exceed **34.2** pounds per 12-month rolling period.

b. SIP 445.721 (Federally Enforceable SIP Requirement) – The opacity from **S2.019 and S2.020** will not equal or exceed **20%** for a period or periods aggregating more than 3 minutes in any one-hour period.

c. NAC 445B.22017 – The opacity from **S2.019 and S2.020** will not equal or exceed **20%**. The opacity must be determined as set forth in 445B.22017.1(a) or (b).

3. NAC 445B.3405

Operating Parameters

a. S2.019 and S2.020 may store No. 2 distillate fuel oil only.

b. The maximum throughput will not exceed:

(1) **95,484,000** gallons per calendar year for **S2.019**.

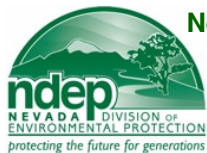
(2) **953,200** gallons per calendar year for **S2.020**.

c. S2.019 and S2.020 may operate **8,760** hours per year.

4. NAC 445B.3405

Monitoring, Record keeping and Compliance

Upon commencement of operations, the **Permittee** will Monitor and record in a contemporaneous log, the total fuel oil throughput for **S2.019 and S2.020** on a monthly basis for the calendar year.



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Section V. Specific Operating Conditions (continued)

O. Emission Unit S2.021 – Diesel Firewater Pump

System 15 Diesel Firewater Pump

S2.021 Detroit Diesel Firewater Pump Engine, Model JW6H-UF60, Serial TBD, 360 HP Output

1. NAC 445B.3405

Air Pollution Equipment

Emissions from **S2.021** are uncontrolled.

2. NAC 445B.3405

Emission Limits

a. On and after the date of startup of **S2.021**, Permittee will not discharge or cause the discharge into the atmosphere from the stack discharges of **S2.021**, the following pollutants in excess of the following specified limits:

- (1) NAC 445B.305 – The discharge of **PM₁₀** (particulate matter less than 10 microns in diameter) to the atmosphere from the stack discharge of **S2.021** will not exceed **0.09** pound per hour or exceed **0.004** ton per year.
- (2) NAC 445B.305 – The discharge of **PM** (particulate matter) to the atmosphere from the stack discharge **S2.021** will not exceed **0.09** pound per hour or exceed **0.004** ton per year.
- (3) NAC 445B.305 – The discharge of **SO₂** (sulfur dioxide) to the atmosphere from the stack discharge of **S2.021** will not exceed **0.12** pound per hour or exceed **0.006** ton per year.
- (4) NAC 445B.305 – The discharge of **NO_x** (nitrogen oxides) to the atmosphere from the stack discharge of **S2.021** will not exceed **3.73** pounds per hour or exceed **0.19** ton per year.
- (5) NAC 445B.305 – The discharge of **CO** (carbon monoxide) to the atmosphere from the stack discharge of **S2.021** will not exceed **0.52** pound per hour or exceed **0.03** ton per year.
- (6) NAC 445B.305 – The discharge of **VOC** (volatile organic compounds) to the atmosphere from the stack discharge of **S2.021** will not exceed **0.19** pound per hour or exceed **0.01** ton per year.
- (7) SIP 445.721 Federally Enforceable SIP – The opacity from the **S2.021** stack discharge will not equal or exceed 20% for a period or periods aggregating more than 3 minutes in any one hour in accordance with SIP 445.721.
- (8) NAC 445B.22017 – The opacity from the **S2.021** stack discharge will not equal or exceed 20% in accordance with NAC 445B.22017.

b. New Source Performance Standards

- (1) 40 CFR Part 60, Subpart IIII Federally Enforceable New Source Performance Standard Requirement – Owners and operators of fire pump engines with a displacement of less than 30 liters per cylinder must comply with the emission standards in Table 4 of 40 CFR Part 60, Subpart IIII. The following emission standards apply:
 - (i) For engines with a maximum engine power of greater than 225 kW (300 HP), but less than 450 kW (600 HP), the following emission standards apply:
 - (a) Non-methane hydrocarbon (NMHC) + Oxides of Nitrogen (NO_x), combined, shall not exceed **10.5 g/kW-hr (7.8 g/HP-hr)**;
 - (b) Carbon Monoxide (CO) shall not exceed **3.5 g/kW-hr (2.6 g/HP-hr)**;
 - (c) Particulate Matter (PM) shall not exceed **0.54 g/kW-hr (0.40 g/HP-hr)**.



BUREAU OF AIR POLLUTION CONTROL

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Permit No. AP4911-1349

**CLASS I AIR QUALITY OPERATING PERMIT
GENERAL REQUIREMENTS**

Issued to: Newmont Nevada Energy Investment, LLC, as Permittee

Section V. Specific Operating Conditions (continued)

O. Emission Unit S2.021 – Diesel Firewater Pump

3. NAC 445B.3405

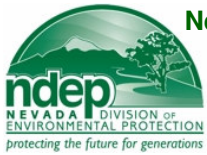
Operating Parameters

- a. **S2.021** may combust #2 Diesel Fuel Oil only.
- b. The sulfur content of the #2 diesel combusted in **S2.021** will not exceed **0.05%** by weight.
- c. **S2.021** may not operate on a routine basis in excess of **100** hours per calendar year. If additional firing is required for emergency fire protection, *the Permittee* will document the emergency and handle the operation as excess emissions as required by Section III.B.4.
- d. 40 CFR Part 60.4209(a) Federally Enforceable New Source Performance Standard Requirement - Permittee must install a non-resettable hour meter prior to startup of the engine.
- e. New Source Performance Standards
 - (1) 40 CFR Part 60, Subpart IIII *Federally Enforceable New Source Performance Standard Requirement*
 - (i) Beginning October 1, 2007, owners and operators of stationary CI ICE subject to this subpart that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR Part 80.510(a).
 - (ii) Beginning October 1, 2010, owners and operators of stationary CI ICE subject to this subpart with a displacement of less than 30 liters per cylinder that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) for non-road diesel fuel.

4. NAC 445B.3405

Monitoring, Record keeping and Compliance

- a. Upon commencement of operation, *the Permittee* will:
 - (1) Monitor and record the total daily hours of operation of **S2.021** each day of operation.
 - (2) Monitor and record the total daily fuel consumption for **S2.021** each day of operation.
 - (3) Record average hourly fuel consumption for **S2.021** each day of operation. The average will be determined using the total hours of operation and total daily fuel consumption in O.4.a.(1) and O.4.a.(2) of this section.
 - (4) Conduct and record a Method 9 visible emissions test on the stack discharges of **S2.021** while the pump engine is operating, on an annual basis. The Method 9 visible emissions test must be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.
 - (5) Conduct and record a Method 5 and Method 201A/202 emission test for PM and PM₁₀, a Method 6, 7, 10 and 24 for SO₂, NO_x, CO and VOC's (or equivalent EPA reference method approved in advance by the Director) on the exhaust stacks of **S2.021** consisting of three valid runs within 180 days from the date of initial startup. The Method 201A/202 emissions tests must be conducted in accordance with 40 CFR Part 51, Appendix M, Method 201A and 202. The Method 5, 6, 7, 10 and 24 emissions test must be conducted in accordance with 40 CFR Part 60, Appendix A.



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**CLASS I AIR QUALITY OPERATING PERMIT
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Section V. Specific Operating Conditions (continued)

O. Emission Unit S2.021 – Diesel Firewater Pump

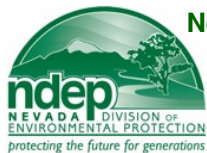
4. NAC 445B.3405

Monitoring, Record keeping and Compliance

b. New Source Performance Standards

(1) 40 CFR Part 60, Subpart IIII *Federally Enforceable New Source Performance Standard Requirement*

- (i) Permittee must operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, owners and operators may only change those settings that are permitted by the manufacturer. Permittee must also meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they apply.
- (ii) Permittee must demonstrate compliance according to one of the methods specified in 40 CFR Part 60.4211(b)(1) through (5).
- (iii) Emergency stationary ICE may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. There is no time limit on the use of emergency stationary ICE in emergency situations. Anyone may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year. For owners and operators of emergency engines meeting standards under 40 CFR Part 60.4205, any operation other than emergency operation, and maintenance and testing as permitted in this section, is prohibited.
- (iv) If the stationary CI internal combustion engine is an emergency stationary internal combustion engine, the owner or operator is not required to submit an initial notification. Starting with the model years in table 5 of 40 CFR Part 60, Subpart IIII, if the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The owner must record the time of operation of the engine and the reason the engine was in operation during that time.



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**CLASS I AIR QUALITY OPERATING PERMIT
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Section V. Specific Operating Conditions (continued)

P. Emission Units S2.022 through 2.024 – Chemical Storage Silos

System 16	Chemical Storage Silos
S2.022	Dry Chemical Storage (Soda Ash)
S2.023	Dry Chemical Storage (Magnesium Oxide)
S2.024	Dry Chemical Storage (Hydrated Lime)

1. NAC 445B.3405

Air Pollution Control Equipment

Emissions from **S2.022 through S2.024** shall each be ducted to a separate control system consisting of a **Bin Vent Filter** with a 100% capture rate.

2. NAC 445B.3405

Emission Limits

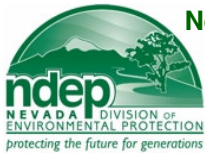
a. On and after the date of startup of **S2.022 through S2.024**, the **Permittee** will not discharge or cause the discharge into the atmosphere from the exhaust stack of each of the **Chemical Storage Silo Bin Vent Filters**, the following pollutants in excess of the following specified limits:

- (1) NAC 445B.305 – The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **0.09** pound per hour or more than **0.40** ton per year from each of the individual units. This limit is less than the **34.085** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited by paragraph P.3.a of this section.
- (2) NAC 445B.305 – The discharge of PM (particulate matter) to the atmosphere will not exceed **0.09** pound per hour or more than **0.40** ton per year from each of the individual units. This limit is less than the **34.085** pounds per hour maximum allowable emission limit as determined from SIP 445.732 and the maximum allowable throughput as limited by paragraph P.3.a of this section.
- (3) NAC 445B.305 BACT Emission Limit – The discharge of PM_{10} to the atmosphere from each of the stack of the **Chemical Storage Silo Bin Vent Filters** will not exceed **0.02** grain per dry standard cubic foot.
- (4) SIP 445.721 (Federally Enforceable SIP Requirement) – The opacity from each of the **Chemical Storage Silo Bin Vent Filter** stack discharges will not equal or exceed **20%** for a period or periods aggregating more than 3 minutes in any one hour in accordance with SIP 445.721.
- (5) NAC 445B.22017 – The opacity from the **Chemical Storage Silo Bin Vent Filter** stack discharges will not equal or exceed **20%** in accordance with NAC 445B.22017.

3. NAC 445B.3405

Operating Parameters

- a. The maximum allowable loading rate for each Chemical Storage Silo, **S2.022 through S2.024**, will not exceed **20.0** tons of dry chemicals per any one-hour period.
- b. The maximum allowable unloading rate for **S2.022 through S2.024** will not exceed **650** pounds of dry chemicals per any one-hour period, combined.
- c. **S2.022 through S2.024** may operate **8,760** hours per calendar year.
- d. Total annual throughput for **S2.022 through S2.024** will not exceed **2,847.0** tons of dry chemicals per calendar year.



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**CLASS I AIR QUALITY OPERATING PERMIT
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Issued to: Newmont Nevada Energy Investment, LLC, as Permittee

Section V. Specific Operating Conditions (continued)

P. Emission Units S2.022 through S2.024 – Chemical Storage Silos. (continued)

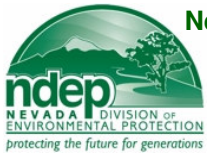
4. NAC 445B.3405

a. Monitoring, Recordkeeping and Compliance

Permittee will:

- (1) Monitor and record the amount of Dry Chemicals loaded into **S2.022 through S2.024** each day loading occurs.
- (2) Monitor and record the amount of Dry Chemicals discharged from **S2.022 through S2.024** each day discharge occurs.
- (3) Conduct a weekly inspection of the **Chemical Storage Silo Bin Vent Filter** on **S2.022 through S2.024** in accordance with the manufacturer's operation and maintenance manual and record the results (e.g. the condition of the bags and housing) and any corrective actions taken.
- (4) Conduct and record a visible emission inspection once per month on the exhaust point of **S2.022 through S2.024**; record the time of the survey and indicate whether any visible emissions were observed. If any visible emissions are observed, conduct and record a Method 9 visible emissions test within 24 hours and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.

*******End of Specific Operating Conditions*******



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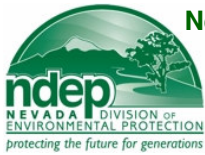
**CLASS I AIR QUALITY OPERATING PERMIT
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Issued to: Newmont Nevada Energy Investment, LLC, as Permittee

Section VI. Emission Caps

A. No Emission Caps Defined.

*******End of Emission Caps*******



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**CLASS I AIR QUALITY OPERATING PERMIT
GENERAL REQUIREMENTS**

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Section VII. Surface Area Disturbance Conditions

A. NAC 445B.22037

Fugitive Dust

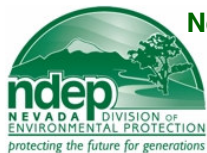
1. **The Permittee** may not cause or permit the handling, transporting, or storing of any material in a manner that allows or may allow controllable particulate matter to become airborne.
2. Except as otherwise provided in subsection 4, **the Permittee** may not cause or permit the construction, repair, demolition, or use of unpaved or untreated areas without first putting into effect an ongoing program using the best practical methods to prevent particulate matter from becoming airborne. As used in this subsection, “best practical methods” includes, but is not limited to, paving, chemical stabilization, watering, phased construction, and re-vegetation.
3. Except as provided in subsection 4, **the Permittee** may not disturb or cover 5 acres or more of land or its topsoil until **the Permittee** has obtained an Operating Permit for surface area disturbance to clear, excavate, or level the land or to deposit any foreign material to fill or cover the land.
4. The provisions of subsections 2 and 3 do not apply to:
 - a. Agricultural activities occurring on agricultural land; or
 - b. Surface disturbances authorized by a permit issued pursuant to NRS 519A.180 which occur on land which is not less than 5 acres or more than 20 acres.

B. NAC 445B.305 Federally Enforceable PSD Permit Requirement

Fugitive Dust Air Pollution Control Equipment

1. **The Permittee** shall install and continuously operate and maintain the following air pollution controls:
 - a. Facility Roads - All facility, haul roads and roads to the plant shall be paved and haul roads shall be washed as necessary.
 - b. Active Coal Storage Piles - All active coal storage piles shall be controlled with a chemical dust suppression agent.
 - d. Inactive Coal Storage Piles - All inactive coal storage piles shall be controlled by chemical binding agent.

*******End of Surface Area Disturbance Conditions*******



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**CLASS I AIR QUALITY OPERATING PERMIT
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Section VIII. Amendments

- 12/21/2005 Paragraph 3 of Section VIII modified to reflect that this PSD OPTC will expire if construction is not commenced within 18 months after the effective date in Paragraph 7 of this Section. For purposes of paragraph 7 of Section VIII, the Effective Date of this PSD OPTC is December 21, 2005, following the appeal of permit to EAB and subsequent publication of the EAB's Order Denying Review of the permit on 12/21/2005.
- 06/14/2007 Startup conditions modified per application received January 19, 2007 (07AP0246). Permit also modified to reflect current operations (coal handling, etc.). Added System 16 (Chemical Storage Silos).

This Permit to construct:

1. Is non-transferable. (NAC 445B.287)
2. Will be posted conspicuously at or near the stationary source. (NAC 445B.318)
3. Will expire if construction is not commenced within 18 months after the effective date in Paragraph 7 of this Section or if construction of the facility is delayed for 18 months after initiated. (NAC 445B.3366)
4. Will expire if a complete application for a Class I operating permit or modification of an existing Class I operating permit is not submitted within 12 months after the initial start-up. (NAC 445B.3366)
5. Any party aggrieved by the Department's decision to issue this permit may appeal to:
 - a) The State Environmental Commission (SEC) within ten days after the date of notice of the Department's action. (NRS 445B.340)
6. The Permittee shall submit a complete Class I application within 12 months after the notification date of commencement of operation as required in this permit to construct. (NAC 445B.3361)
7. The effective date of this permit is December 21, 2005.

Original Permit Issue Date: May 5, 2005

Signature

Issued by: Matthew A. DeBurle
Permitting Supervisor
Bureau of Air Pollution Control

Phone: (775) 687-9349

Date: August 3, 2007

01/06 MAD
06/07 FV

Class I Non-Permit Equipment List

Appended to Newmont Nevada Energy Investment, LLC, #AP4911-1349

Emission Unit #	Emission Unit Description
IA1.001	Emergency Generator, 1,810 HP, based on 500 hrs/yr, NAC 445B.288(2)(h)
IA1.002	1,000 Gallon No. 2 Fuel Oil Storage Tank, NAC 445B.288(2)(d)
IA1.003	1,000 Gallon No. 2 Fuel Oil Storage Tank, NAC 445B.288(2)(d)
IA1.004	1,000 Gallon Lube/Motor Oil Storage Tank, NAC 445B.288(2)(d)
IA1.005	1,000 Gallon Used Oil Storage Tank, NAC 445B.288(2)(d)
IA1.006	Safety Kleen (or equivalent) parts cleaner (non-halogenated, cold solvent), Approved Pursuant to NAC 445B.288(4), March 01, 1996, Insignificant Activity List